

B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**patilasma250@gmail.com**) was recorded on submission of this form.

Email *

patilasma250@gmail.com

Student's Name *

Kkkkk

Roll No. *

Ooooo

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
- b
- c
- d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
- b
- c
- d
- Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

 a b c d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

 a b c d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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The respondent's email (**swatipatil206.sp@gmail.com**) was recorded on submission of this form.

Email *

swatipatil206.sp@gmail.com

Student's Name *

SSP

Roll No. *

182828338

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

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The respondent's email (**patankarsanjayp@gmail.com**) was recorded on submission of this form.

Email *

patankarsanjayp@gmail.com

Student's Name *

Sanjay

Roll No. *

1144

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

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a

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The respondent's email (**ajinkya.103.asp@gmail.com**) was recorded on submission of this form.

Email *

ajinkya.103.asp@gmail.com

Student's Name *

Asp

Roll No. *

156585558

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

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TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**vaishnavigove9@gmail.com**) was recorded on submission of this form.

Email *

vaishnavigove9@gmail.com

Student's Name *

Vaishnavi Shashikant Gove

Roll No. *

7633

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

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- a) 2 b) -2 c) 1 d) -1

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- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

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B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

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a) $\frac{16}{95}$

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- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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The respondent's email (**varshachavan1234@gmail.com**) was recorded on submission of this form.

Email *

varshachavan1234@gmail.com

Student's Name *

Varsha Dadu Chavan

Roll No. *

7848

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
- b
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Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
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- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

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$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

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 $B(m,n) = \text{-----}$

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The respondent's email (**snmane246@gmail.com**) was recorded on submission of this form.

Email *

snmane246@gmail.com

Student's Name *

MANE SUPRIYA NARAYAN

Roll No. *

7560

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

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a

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- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

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TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**vaishnavikhurandale16@gmail.com**) was recorded on submission of this form.

Email *

vaishnavikhurandale16@gmail.com

Student's Name *

Vaishnavi rajendra Khurandale

Roll No. *

7863

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

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- a) 0 b) 1 c) -1 d) 2

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2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

- a
 b
 c
 d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

- a
 b
 c
 d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**rujutadhere29@gmail.com**) was recorded on submission of this form.

Email *

rujutadhere29@gmail.com

Student's Name *

DHERE RUJUTA SHIVAJI

Roll No. *

7541

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (sejalshinde06@gmail.com) was recorded on submission of this form.

Email *

sejalshinde06@gmail.com

Student's Name *

Sejal shinde

Roll No. *

7577

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**pshriya841@gmail.com**) was recorded on submission of this form.

Email *

pshriya841@gmail.com

Student's Name *

Shriya suresh patil

Roll No. *

7571

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**Kalleshkhekare3003@gmail.com**) was recorded on submission of this form.

Email *

Kalleshkhekare3003@gmail.com

Student's Name *

Kallesh chandrakant khekare

Roll No. *

7552

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**poonamramchandani41@gmail.com**) was recorded on submission of this form.

Email *

poonamramchandani41@gmail.com

Student's Name *

Khushi Deepak Ramchandani

Roll No. *

7574

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
- b
- c
- d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
- b
- c
- d
- Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (shivamjawale5650@gmail.com) was recorded on submission of this form.

Email *

shivamjawale5650@gmail.com

Student's Name *

Shivam nilkhanth jawale

Roll No. *

7547

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**sammedbarwadesss86@gmail.com**) was recorded on submission of this form.

Email *

sammedbarwadesss86@gmail.com

Student's Name *

Sammed Mahavir Barwade

Roll No. *

7535

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (sangeetapareek37@gmail.com) was recorded on submission of this form.

Email *

sangeetapareek37@gmail.com

Student's Name *

Sangeeta Ramawatar Pareek

Roll No. *

7568

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
- b
- c
- d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
- b
- c
- d
- Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**desaifiza642@gmail.com**) was recorded on submission of this form.

Email *

desaifiza642@gmail.com

Student's Name *

Fiza Desai

Roll No. *

7537

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**pravinsutar9373@gmail.com**) was recorded on submission of this form.

Email *

pravinsutar9373@gmail.com

Student's Name *

Pravin Rajendra Sutar

Roll No. *

7529

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

a

b

c

d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

a

b

c

d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**Sakshinirmale2000@gmail.com**) was recorded on submission of this form.

Email *

Sakshinirmale2000@gmail.com

Student's Name *

Sakshi Sunil Nirmale

Roll No. *

7517

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
- b
- c
- d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
- b
- c
- d
- Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**sakshisolase11@gmail.com**) was recorded on submission of this form.

Email *

sakshisolase11@gmail.com

Student's Name *

SAKSHI SUBHASH SOLASE

Roll No. *

7578

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
- b
- c
- d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
- b
- c
- d
- Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

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TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**mullaashraf2001@gmail.com**) was recorded on submission of this form.

Email *

mullaashraf2001@gmail.com

Student's Name *

Ashrafalli Akhtarhusen Mulla

Roll No. *

7778

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
- b
- c
- d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
- b
- c
- d
- Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (sirajshidvanka2775@gmail.com) was recorded on submission of this form.

Email *

sirajshidvanka2775@gmail.com

Student's Name *

Siraj Yasin Shidvankar

Roll No. *

7576

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
- b
- c
- d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
- b
- c
- d
- Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**samadhana90@gmail.com**) was recorded on submission of this form.

Email *

samadhana90@gmail.com

Student's Name *

SAMADHAN ANIL ARADE

Roll No. *

7767

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**pranalipshirke2917@gmail.com**) was recorded on submission of this form.

Email *

pranalipshirke2917@gmail.com

Student's Name *

Pranali Shirke

Roll No. *

7528

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
- b
- c
- d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
- b
- c
- d
- Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1,n) = \text{-----}$$

- a) $mn B(m,n)$ b) $m B(m,n+1)$ c) $(m+n) B(m,n)$ d) $B(m,n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**nikitapatil3136@gmail.com**) was recorded on submission of this form.

Email *

nikitapatil3136@gmail.com

Student's Name *

Nikita Subhash Patil

Roll No. *

7781

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**patilparnita172@gmail.com**) was recorded on submission of this form.

Email *

patilparnita172@gmail.com

Student's Name *

Pranita Rajendra Patil

Roll No. *

7596

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**srushtitandale955@gmail.com**) was recorded on submission of this form.

Email *

srushtitandale955@gmail.com

Student's Name *

Srushti Ravindra Tandale

Roll No. *

7601

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**kolilalita018@gmail.com**) was recorded on submission of this form.

Email *

kolilalita018@gmail.com

Student's Name *

Lalita Ramdas Koli

Roll No. *

7555

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

 a b c d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

 a b c d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**snehalpatil1282001@gmail.com**) was recorded on submission of this form.

Email *

snehalpatil1282001@gmail.com

Student's Name *

Snehal Sanjay Patil

Roll No. *

7760

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**morepranav562@gmail.com**) was recorded on submission of this form.

Email *

morepranav562@gmail.com

Student's Name *

Pranav Ashok More

Roll No. *

7564

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
- b
- c
- d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
- b
- c
- d
- Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**shivanibagadi30@gmail.com**) was recorded on submission of this form.

Email *

shivanibagadi30@gmail.com

Student's Name *

Shivani Bagadi

Roll No. *

7583

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (rohitvetale2001@gmail.com) was recorded on submission of this form.

Email *

rohitvetale2001@gmail.com

Student's Name *

Rohit Bapu vetale

Roll No. *

7077

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (prasadghorpade9497@gmail.com) was recorded on submission of this form.

Email *

prasadghorpade9497@gmail.com

Student's Name *

Prasad shahaji ghorpade

Roll No. *

7503

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

a

b

c

d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

a

b

c

d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**santoshag683@gmail.com**) was recorded on submission of this form.

Email *

santoshag683@gmail.com

Student's Name *

Santosh Ananda Gurav

Roll No. *

7542

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**poonamgiri2124@gmail.com**) was recorded on submission of this form.

Email *

poonamgiri2124@gmail.com

Student's Name *

Poonam Sanjay Giri

Roll No. *

7770

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

- a
 b
 c
 d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

- a
 b
 c
 d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**siddheshlohar09@gmail.com**) was recorded on submission of this form.

Email *

siddheshlohar09@gmail.com

Student's Name *

SIDDHESH RAVINDRA LOHAR

Roll No. *

7558

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**snehalnirmale1407@gmail.com**) was recorded on submission of this form.

Email *

snehalnirmale1407@gmail.com

Student's Name *

Snehal Sudhakar Nirmale

Roll No. *

7780

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**harshadasutar7777@gmail.com**) was recorded on submission of this form.

Email *

harshadasutar7777@gmail.com

Student's Name *

Harshada sutar

Roll No. *

7787

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**ketankc07@gmail.com**) was recorded on submission of this form.

Email *

ketankc07@gmail.com

Student's Name *

Chougale ketan krishnat

Roll No. *

7742

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**shrutibam556@gmail.com**) was recorded on submission of this form.

Email *

shrutibam556@gmail.com

Student's Name *

Shruti Harish Bam

Roll No. *

7584

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**bhargavikugaji19@gmail.com**) was recorded on submission of this form.

Email *

bhargavikugaji19@gmail.com

Student's Name *

Bhargavi ramling kugaji

Roll No. *

7752

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**garadisia18@gmail.com**) was recorded on submission of this form.

Email *

garadisia18@gmail.com

Student's Name *

Garadi Saniya Harun

Roll No. *

7285

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

a

b

c

d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

a

b

c

d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**shreyakorde01@gmail.com**) was recorded on submission of this form.

Email *

shreyakorde01@gmail.com

Student's Name *

Shreya Rahul Korde

Roll No. *

7751

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**sakshivarake@gmail.com**) was recorded on submission of this form.

Email *

sakshivarake@gmail.com

Student's Name *

Sakshi warake

Roll No. *

7582

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
- b
- c
- d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
- b
- c
- d
- Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**gargimude123@gmail.com**) was recorded on submission of this form.

Email *

gargimude123@gmail.com

Student's Name *

Gargi Mude

Roll No. *

7590

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**pratikchavan640@gmail.com**) was recorded on submission of this form.

Email *

pratikchavan640@gmail.com

Student's Name *

Pratik Pradeep Chavan

Roll No. *

7768

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**msaniya981@gmail.com**) was recorded on submission of this form.

Email *

msaniya981@gmail.com

Student's Name *

Saniya Niyaj Mujawar

Roll No. *

7591

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (saraswatipowar2701@gmail.com) was recorded on submission of this form.

Email *

saraswatipowar2701@gmail.com

Student's Name *

Saraswati ajit powar

Roll No. *

7297

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

 a b c d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

 a b c d

Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**oppatil9033@gmail.com**) was recorded on submission of this form.

Email *

oppatil9033@gmail.com

Student's Name *

PATIL OMKAR PRAKASH

Roll No. *

7521

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (pranjalshintre@gmail.com) was recorded on submission of this form.

Email *

pranjalshintre@gmail.com

Student's Name *

Pranjal

Roll No. *

7764

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**kirti182001@gmail.com**) was recorded on submission of this form.

Email *

kirti182001@gmail.com

Student's Name *

Kirti pravin Shinde

Roll No. *

7786

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**vasundharabendake2301@gmail.com**) was recorded on submission of this form.

Email *

vasundharabendake2301@gmail.com

Student's Name *

Vasundhara atul bendake

Roll No. *

7585

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

 a b c d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

 a b c d

Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**mrunalikamble1155@gmail.com**) was recorded on submission of this form.

Email *

mrunalikamble1155@gmail.com

Student's Name *

Mrunali Ramesh Kamble

Roll No. *

7508

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

 a b c d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

 a b c d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**prashantpower836@gmail.com**) was recorded on submission of this form.

Email *

prashantpower836@gmail.com

Student's Name *

Prashant Vishal power

Roll No. *

7858

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**abhikamble124252@gmail.com**) was recorded on submission of this form.

Email *

abhikamble124252@gmail.com

Student's Name *

Abhishek kamble

Roll No. *

7548

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**rahimnagarji@gmail.com**) was recorded on submission of this form.

Email *

rahimnagarji@gmail.com

Student's Name *

Rahim nurmahamad nagarji

Roll No. *

7567

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**jaydeepkamble8551@gmail.com**) was recorded on submission of this form.

Email *

jaydeepkamble8551@gmail.com

Student's Name *

Jaydeep lalaso kamble

Roll No. *

7851

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**shwetamudrale2002@gmail.com**) was recorded on submission of this form.

Email *

shwetamudrale2002@gmail.com

Student's Name *

Shweta Rahul Mudrale

Roll No. *

7565

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

- a
 b
 c
 d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

- a
 b
 c
 d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**yogirajkilledar@gmail.com**) was recorded on submission of this form.

Email *

yogirajkilledar@gmail.com

Student's Name *

Yogiraj Rajendra killedar

Roll No. *

7553

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**kedarkumathekar@gmail.com**) was recorded on submission of this form.

Email *

kedarkumathekar@gmail.com

Student's Name *

KEDAR KUMATHEKAR

Roll No. *

7557

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
- b
- c
- d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
- b
- c
- d
- Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (sujitpatil0708@gmail.com) was recorded on submission of this form.

Email *

sujitpatil0708@gmail.com

Student's Name *

Sujit Sunil Patil

Roll No. *

7857

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**amrutadabade728@gmail.com**) was recorded on submission of this form.

Email *

amrutadabade728@gmail.com

Student's Name *

Amruta shahaji dabade

Roll No. *

7769

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
- b
- c
- d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
- b
- c
- d
- Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**rohanpatil0907@gmail.com**) was recorded on submission of this form.

Email *

rohanpatil0907@gmail.com

Student's Name *

ROHAN ASHOK PATIL

Roll No. *

7856

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1,n) = \text{-----}$$

- a) $mn B(m,n)$ b) $m B(m,n+1)$ c) $(m+n) B(m,n)$ d) $B(m,n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**sp033129@gmail.com**) was recorded on submission of this form.

Email *

sp033129@gmail.com

Student's Name *

Sunil Suresh Patil

Roll No. *

7761

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (sanketikal@gmail.com) was recorded on submission of this form.

Email *

sanketikal@gmail.com

Student's Name *

Ekal Sanket Sarjerao

Roll No. *

7746

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
- b
- c
- d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
- b
- c
- d
- Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**preetikatyar99@gmail.com**) was recorded on submission of this form.

Email *

preetikatyar99@gmail.com

Student's Name *

Katyar Preeti Manohar

Roll No. *

7774

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**pankajkhandare72@gmail.com**) was recorded on submission of this form.

Email *

pankajkhandare72@gmail.com

Student's Name *

Pankaj Vishnu khandare

Roll No. *

7775

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email ([sayalijadhav061@gmail.com](mailto:syalijadhav061@gmail.com)) was recorded on submission of this form.

Email *

[sayalijadhav061@gmail.com](mailto:syalijadhav061@gmail.com)

Student's Name *

Sayali jadhav

Roll No. *

7771

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**shraddhaj1820@gmail.com**) was recorded on submission of this form.

Email *

shraddhaj1820@gmail.com

Student's Name *

Shraddha dinkar jadhav

Roll No. *

7545

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**uditanshuprabhavale2001@gmail.com**) was recorded on submission of this form.

Email *

uditanshuprabhavale2001@gmail.com

Student's Name *

Uditanshu Sarang Prabhavale

Roll No. *

7783

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**swapnil2918@gmail.com**) was recorded on submission of this form.

Email *

swapnil2918@gmail.com

Student's Name *

Deshmuk Swapnil Vitthal

Roll No. *

7540

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**bsourabh782001@gmail.com**) was recorded on submission of this form.

Email *

bsourabh782001@gmail.com

Student's Name *

Morbale Sourabh Sambhaji

Roll No. *

7514

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**samruddhi.magdum13@gmail.com**) was recorded on submission of this form.

Email *

samruddhi.magdum13@gmail.com

Student's Name *

Samruddhi gunda magdum

Roll No. *

7559

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**pratikshad570@gmail.com**) was recorded on submission of this form.

Email *

pratikshad570@gmail.com

Student's Name *

Pratiksha Jitendra Desai

Roll No. *

7539

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**rutujapatil7744@gmail.com**) was recorded on submission of this form.

Email *

rutujapatil7744@gmail.com

Student's Name *

Rutuja Anant Patil

Roll No. *

7570

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**shreetej007@gmail.com**) was recorded on submission of this form.

Email *

shreetej007@gmail.com

Student's Name *

Shritej Subhash Patil

Roll No. *

7759

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**ruturaj8966@gmail.com**) was recorded on submission of this form.

Email *

ruturaj8966@gmail.com

Student's Name *

Raturaj Sharad Inamdar

Roll No. *

7543

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (sourabhnerlekar4938@gmail.com) was recorded on submission of this form.

Email *

sourabhnerlekar4938@gmail.com

Student's Name *

Sourabh Krishnat Nerlekar

Roll No. *

7516

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**desaiakanksha2001@gmail.com**) was recorded on submission of this form.

Email *

desaiakanksha2001@gmail.com

Student's Name *

Akanksha Anil Desai

Roll No. *

7744

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**vishwajeetsu1ar@gmail.com**) was recorded on submission of this form.

Email *

vishwajeetsu1ar@gmail.com

Student's Name *

Vishwajeet sutar

Roll No. *

7878

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
- b
- c
- d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
- b
- c
- d
- Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**bhatmareshivani2001@gmail.com**) was recorded on submission of this form.

Email *

bhatmareshivani2001@gmail.com

Student's Name *

Shivani Bhatamare

Roll No. *

7536

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**abhijeetlad282@gmail.com**) was recorded on submission of this form.

Email *

abhijeetlad282@gmail.com

Student's Name *

Abhijeet Keraba Lad

Roll No. *

7512

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d

Other: 0

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**abjagadale06@gmail.com**) was recorded on submission of this form.

Email *

abjagadale06@gmail.com

Student's Name *

Amey jagadale

Roll No. *

7546

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**sakshisubare@gmail.com**) was recorded on submission of this form.

Email *

sakshisubare@gmail.com

Student's Name *

Sakshi sanjay ubare

Roll No. *

7532

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
- b
- c
- d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
- b
- c
- d
- Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (niranjanspatil2003@gmail.com) was recorded on submission of this form.

Email *

niranjanspatil2003@gmail.com

Student's Name *

Shreya shahaji patil

Roll No. *

7598

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**komalkharat99938@gmail.com**) was recorded on submission of this form.

Email *

komalkharat99938@gmail.com

Student's Name *

komal laxman kharat

Roll No. *

7288

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
- b
- c
- d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
- b
- c
- d
- Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**madhumatimore1042001@gmail.com**) was recorded on submission of this form.

Email *

madhumatimore1042001@gmail.com

Student's Name *

Madhumati tanaji more

Roll No. *

7563

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**tasmiyajamadar199@gmail.com**) was recorded on submission of this form.

Email *

tasmiyajamadar199@gmail.com

Student's Name *

Tasmiya

Roll No. *

7749

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (ashwinibankar9193@gmail.com) was recorded on submission of this form.

Email *

ashwinibankar9193@gmail.com

Student's Name *

Ashwini Rajaram Bankar

Roll No. *

7534

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**pavanpatil9874@gmail.com**) was recorded on submission of this form.

Email *

pavanpatil9874@gmail.com

Student's Name *

Pavan Dhanaji Patil

Roll No. *

7522

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (tanaypusalkar@gmail.com) was recorded on submission of this form.

Email *

tanaypusalkar@gmail.com

Student's Name *

Tanay Pusalkar

Roll No. *

7784

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**abhipatil8008@gmail.com**) was recorded on submission of this form.

Email *

abhipatil8008@gmail.com

Student's Name *

Abhijit Hindurao Patil

Roll No. *

7518

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (prathameshtashildar@gmail.com) was recorded on submission of this form.

Email *

prathameshtashildar@gmail.com

Student's Name *

Prathamesh sunil tashildar

Roll No. *

7789

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**patilsiddharth029@gmail.com**) was recorded on submission of this form.

Email *

patilsiddharth029@gmail.com

Student's Name *

Siddharth subhash Patil

Roll No. *

7782

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**svaishnavi539@gmail.com**) was recorded on submission of this form.

Email *

svaishnavi539@gmail.com

Student's Name *

Vaishnavi suresh sutar

Roll No. *

7788

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1,n) = \text{-----}$$

- a) $mn B(m,n)$ b) $m B(m,n+1)$ c) $(m+n) B(m,n)$ d) $B(m,n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**vaibhavthanekar57@gmail.com**) was recorded on submission of this form.

Email *

vaibhavthanekar57@gmail.com

Student's Name *

Vaibhav Mahendra Thanekar

Roll No. *

7531

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
- b
- c
- d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
- b
- c
- d
- Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**aniketshindesarkar@gmail.com**) was recorded on submission of this form.

Email *

aniketshindesarkar@gmail.com

Student's Name *

Aniket vasant shinde

Roll No. *

7525

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
- b
- c
- d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
- b
- c
- d
- Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**vaibhav.kadvekar7364@gmail.com**) was recorded on submission of this form.

Email *

vaibhav.kadvekar7364@gmail.com

Student's Name *

Vaibhav maruti kadvekar

Roll No. *

7588

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

 a b c d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

 a b c d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**abhinandankolekar03577@gmail.com**) was recorded on submission of this form.

Email *

abhinandankolekar03577@gmail.com

Student's Name *

Abhinandan Laxman kolekar

Roll No. *

7510

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

 a b c d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

 a b c d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**aabhipatil10@gmail.com**) was recorded on submission of this form.

Email *

aabhipatil10@gmail.com

Student's Name *

Abhishek Ajit Patil

Roll No. *

7756

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

a

b

c

d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

a

b

c

d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**riteshkumarnashte562@gmail.com**) was recorded on submission of this form.

Email *

riteshkumarnashte562@gmail.com

Student's Name *

Riteshkumar Rameshwar Nashte

Roll No. *

7515

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

 a b c d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

 a b c d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**0crazy007@gmail.com**) was recorded on submission of this form.

Email *

0crazy007@gmail.com

Student's Name *

Aadesh

Roll No. *

7755

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**patilsakshi05102001@gmail.com**) was recorded on submission of this form.

Email *

patilsakshi05102001@gmail.com

Student's Name *

Sakshi pramod patil

Roll No. *

7754

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

a

b

c

d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

a

b

c

d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**Prajushinde3985@gmail.com**) was recorded on submission of this form.

Email *

Prajushinde3985@gmail.com

Student's Name *

Prajyoti Anil Shinde

Roll No. *

7527

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
- b
- c
- d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
- b
- c
- d
- Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (manishapmuthane@gmail.com) was recorded on submission of this form.

Email *

manishapmuthane@gmail.com

Student's Name *

Vaishnavi Pravin Muthane

Roll No. *

7779

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
- b
- c
- d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
- b
- c
- d
- Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**karishmakumarimali5@gmail.com**) was recorded on submission of this form.

Email *

karishmakumarimali5@gmail.com

Student's Name *

Karishma Kumari mali

Roll No. *

7777

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**kambleashlesha2002@gmail.com**) was recorded on submission of this form.

Email *

kambleashlesha2002@gmail.com

Student's Name *

Ashlesha kamble

Roll No. *

7507

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
- b
- c
- d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
- b
- c
- d
- Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

 a b c d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

 a b c d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**gandhuremanoj@gmail.com**) was recorded on submission of this form.

Email *

gandhuremanoj@gmail.com

Student's Name *

Manoj

Roll No. *

7587

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

 a b c d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

 a b c d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

- a
 b
 c
 d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

- a
 b
 c
 d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**rutujam778@gmail.com**) was recorded on submission of this form.

Email *

rutujam778@gmail.com

Student's Name *

Rutuja Vitthal Magdum

Roll No. *

7513

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

 a b c d

Q.4.

2 points

) If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

 a b c d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**patilsarika644@gmail.com**) was recorded on submission of this form.

Email *

patilsarika644@gmail.com

Student's Name *

Sarika sahaddev patil

Roll No. *

7523

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

 a b c d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

 a b c d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**mrunalipowar2442@gmail.com**) was recorded on submission of this form.

Email *

mrunalipowar2442@gmail.com

Student's Name *

Powar Mrunali Ramchandra

Roll No. *

7572

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**prafullkandalkar5497@gmail.com**) was recorded on submission of this form.

Email *

prafullkandalkar5497@gmail.com

Student's Name *

Prafull Rajendra Kandalkar

Roll No. *

7509

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
- b
- c
- d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
- b
- c
- d
- Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

) If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

- a
 b
 c
 d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

- a
 b
 c
 d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**abhisheknpatil13@gmail.com**) was recorded on submission of this form.

Email *

abhisheknpatil13@gmail.com

Student's Name *

Abhishek nivas patil

Roll No. *

7592

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

 a b c d

Q.4.

2 points

) If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

 a b c d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**vedantkamble02@gmail.com**) was recorded on submission of this form.

Email *

vedantkamble02@gmail.com

Student's Name *

Vedant kamble

Roll No. *

7550

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
- b
- c
- d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
- b
- c
- d
- Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

- a
 b
 c
 d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

- a
 b
 c
 d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**abkhamkar17@gmail.com**) was recorded on submission of this form.

Email *

abkhamkar17@gmail.com

Student's Name *

KHAMKAR AKASH BABURAO

Roll No. *

7551

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

) If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**sp8059617@gmail.com**) was recorded on submission of this form.

Email *

sp8059617@gmail.com

Student's Name *

Santosh Subhash Patil

Roll No. *

7758

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

 a b c d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

 a b c d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (aakankshajadhav17@gmail.com) was recorded on submission of this form.

Email *

aakankshajadhav17@gmail.com

Student's Name *

Aakanksha chandrakant jadhav

Roll No. *

7544

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

 a b c d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

 a b c d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

- a
 b
 c
 d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

- a
 b
 c
 d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (rajputaravsahab@gmail.com) was recorded on submission of this form.

Email *

rajputaravsahab@gmail.com

Student's Name *

Ajay ravasaheb Rajput

Roll No. *

7573

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

) If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**kumbharpratiksha2019@gmail.com**) was recorded on submission of this form.

Email *

kumbharpratiksha2019@gmail.com

Student's Name *

Pratiksha Chandrakant Kumbhar

Roll No. *

7511

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

 a b c d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

 a b c d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

a

b

c

d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

a

b

c

d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

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TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**patilashu1710@gmail.com**) was recorded on submission of this form.

Email *

patilashu1710@gmail.com

Student's Name *

ASITKUMAR UTTAM PATIL

Roll No. *

7593

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
- b
- c
- d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
- b
- c
- d
- Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

a

b

c

d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

a

b

c

d

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1) Each question carries 2 marks.

The respondent's email (**akshadamore78@gmail.com**) was recorded on submission of this form.

Email *

akshadamore78@gmail.com

Student's Name *

Akshada Vijay More

Roll No. *

7562

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
- b
- c
- d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
- b
- c
- d
- Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

- a
 b
 c
 d

Q.10.

2 points

$$n B(m+1,n) = \text{-----}$$

- a) $mn B(m,n)$ b) $m B(m,n+1)$ c) $(m+n) B(m,n)$ d) $B(m,n+1)$

- a
 b
 c
 d

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Instructions -

1) Each question carries 2 marks.

The respondent's email (rajmagdum2325@gmail.com) was recorded on submission of this form.

Email *

rajmagdum2325@gmail.com

Student's Name *

Rajvardhan satappa magdum

Roll No. *

7753

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

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TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**sbjadhav201274@gaiml.com**) was recorded on submission of this form.

Email *

sbjadhav201274@gaiml.com

Student's Name *

Ankita Sanjay Jadhav

Roll No. *

7101

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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PAPER NAME - Differential and Integral Calculus

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TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**prajyotmali9@gmail.com**) was recorded on submission of this form.

Email *

prajyotmali9@gmail.com

Student's Name *

Prajyot Sanjay Mali

Roll No. *

7589

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

- a
 b
 c
 d

Q.10.

2 points

$$n B(m+1,n) = \text{-----}$$

- a) $mn B(m,n)$ b) $m B(m,n+1)$ c) $(m+n) B(m,n)$ d) $B(m,n+1)$

- a
 b
 c
 d

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PAPER NAME - Differential and Integral Calculus

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TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (rohiniPatilwaghawe@gmail.com) was recorded on submission of this form.

Email *

rohiniPatilwaghawe@gmail.com

Student's Name *

Patil Rohini Vilas

Roll No. *

7597

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
- b
- c
- d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
- b
- c
- d
- Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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Instructions -

1) Each question carries 2 marks.

The respondent's email (**pranalikolekar3@gmai.com**) was recorded on submission of this form.

Email *

pranalikolekar3@gmai.com

Student's Name *

Pranali Ravikant Kolekar

Roll No. *

7554

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

- a
 b
 c
 d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

- a
 b
 c
 d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**shindekarankumar43@gmail.com**) was recorded on submission of this form.

Email *

shindekarankumar43@gmail.com

Student's Name *

Karankumar Ashok Shinde

Roll No. *

7526

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

 a b c d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

 a b c d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**digvijaypankar73@gmail.com**) was recorded on submission of this form.

Email *

digvijaypankar73@gmail.com

Student's Name *

Digvijay Satappa Pankar

Roll No. *

7850

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
- b
- c
- d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
- b
- c
- d
- Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

) If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**splove2313@gmail.com**) was recorded on submission of this form.

Email *

splove2313@gmail.com

Student's Name *

Sumit parit

Roll No. *

7569

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

- a
 b
 c
 d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

- a
 b
 c
 d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**abhishekpotdar8777@gmail.com**) was recorded on submission of this form.

Email *

abhishekpotdar8777@gmail.com

Student's Name *

Abhishek Sharad Potdar

Roll No. *

7600

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**kalyanipatil1831@gmail.com**) was recorded on submission of this form.

Email *

kalyanipatil1831@gmail.com

Student's Name *

Kalyani Pandurang Patil

Roll No. *

7595

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

) If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

- a
 b
 c
 d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

- a
 b
 c
 d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**121416patil@gmail.com**) was recorded on submission of this form.

Email *

121416patil@gmail.com

Student's Name *

Avdhoot Laxman Patil

Roll No. *

7594

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

 a b c d

Q.4.

2 points

) If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

 a b c d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**abkadwale@gmail.com**) was recorded on submission of this form.

Email *

abkadwale@gmail.com

Student's Name *

Ananya Balwant Kadwale

Roll No. *

7772

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**tahasildarraaj10@gmail.com**) was recorded on submission of this form.

Email *

tahasildarraaj10@gmail.com

Student's Name *

Raj Ramesh Tahasildar

Roll No. *

7530

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**csuyash8@gmail.com**) was recorded on submission of this form.

Email *

csuyash8@gmail.com

Student's Name *

Suyash praveen Chougule

Roll No. *

7586

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
- b
- c
- d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
- b
- c
- d
- Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (aishuschavan332001@gmail.com) was recorded on submission of this form.

Email *

aishuschavan332001@gmail.com

Student's Name *

Aishwarya Sunil Chavan

Roll No. *

7741

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**vaishnavijadhav567@gmail.com**) was recorded on submission of this form.

Email *

vaishnavijadhav567@gmail.com

Student's Name *

Vaishnavi Ravaso Jadhav

Roll No. *

7748

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**ap889892@gmail.com**) was recorded on submission of this form.

Email *

ap889892@gmail.com

Student's Name *

Ashwini Ashok Patil

Roll No. *

7520

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

a

b

c

d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

a

b

c

d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (pranjalterdale001@gmail.com) was recorded on submission of this form.

Email *

pranjalterdale001@gmail.com

Student's Name *

PRANJALI ANANDKUMAR TERDALE

Roll No. *

7579

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**psankpal5060@gmail.com**) was recorded on submission of this form.

Email *

psankpal5060@gmail.com

Student's Name *

Prajakta Sankpal

Roll No. *

7785

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

 a b c d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

 a b c d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1,n) = \text{-----}$$

- a) $mn B(m,n)$ b) $m B(m,n+1)$ c) $(m+n) B(m,n)$ d) $B(m,n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

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Instructions -

1) Each question carries 2 marks.

The respondent's email (**dinderutuja8@gmail.com**) was recorded on submission of this form.

Email *

dinderutuja8@gmail.com

Student's Name *

Rutuja Amar Dinde

Roll No. *

7745

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

- a
 b
 c
 d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

- a
 b
 c
 d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (atpatil7050@gmail.com) was recorded on submission of this form.

Email *

atpatil7050@gmail.com

Student's Name *

Aditya Tatyaso Patil

Roll No. *

7519

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
- b
- c
- d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
- b
- c
- d
- Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**sutaryogita96@gmail.com**) was recorded on submission of this form.

Email *

sutaryogita96@gmail.com

Student's Name *

Yogita vasant sutar

Roll No. *

7866

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**suhaspatil24112001@gmail.com**) was recorded on submission of this form.

Email *

suhaspatil24112001@gmail.com

Student's Name *

Suhas Vikram Patil

Roll No. *

7524

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

- a
 b
 c
 d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

- a
 b
 c
 d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**kadamsandesh1036@gmail.com**) was recorded on submission of this form.

Email *

kadamsandesh1036@gmail.com

Student's Name *

Sandesh kadam

Roll No. *

7506

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**shwetakoshti05@gmail.com**) was recorded on submission of this form.

Email *

shwetakoshti05@gmail.com

Student's Name *

Shweta jitendra koshti

Roll No. *

7556

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

) If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

a

b

c

d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

a

b

c

d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (nikhiljadhav17146@gmail.com) was recorded on submission of this form.

Email *

nikhiljadhav17146@gmail.com

Student's Name *

Nikhil jadhav

Roll No. *

7504

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (ashutoshshivane4@gmail.com) was recorded on submission of this form.

Email *

ashutoshshivane4@gmail.com

Student's Name *

Ashutosh Dhanaji shivane

Roll No. *

7765

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**ashwinikamble1942@gmail.com**) was recorded on submission of this form.

Email *

ashwinikamble1942@gmail.com

Student's Name *

Ashwini Mohan Kamble

Roll No. *

7549

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**sejaltonpe@gmail.com**) was recorded on submission of this form.

Email *

sejaltonpe@gmail.com

Student's Name *

Sejal Vijay Tonpe

Roll No. *

7580

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

- a
- b
- c
- d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

- a
- b
- c
- d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**rutujarandive20@gmail.com**) was recorded on submission of this form.

Email *

rutujarandive20@gmail.com

Student's Name *

Rutuja Arvind Randive

Roll No. *

7575

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
- b
- c
- d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
- b
- c
- d
- Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

- a
 b
 c
 d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

- a
 b
 c
 d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (snehalpatil8271@gmail.com) was recorded on submission of this form.

Email *

snehalpatil8271@gmail.com

Student's Name *

Snehal Suresh patil

Roll No. *

7599

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

 a b c d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

 a b c d Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

) If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**shwetadabade8985@gmail.com**) was recorded on submission of this form.

Email *

shwetadabade8985@gmail.com

Student's Name *

Shweta Shivaji Dabade

Roll No. *

7281

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

a

b

c

d

Q.10.

2 points

$$n B(m+1,n) = \text{-----}$$

- a) $mn B(m,n)$ b) $m B(m,n+1)$ c) $(m+n) B(m,n)$ d) $B(m,n+1)$

a

b

c

d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**kajalkatyar6@gmail.com**) was recorded on submission of this form.

Email *

kajalkatyar6@gmail.com

Student's Name *

Kajal lakhmichand katyar

Roll No. *

7773

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**tejashree1215@gmail.com**) was recorded on submission of this form.

Email *

tejashree1215@gmail.com

Student's Name *

Tejashree Sarang Sagaonkar

Roll No. *

7763

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**mahadikakshata2412@gemil.com**) was recorded on submission of this form.

Email *

mahadikakshata2412@gemil.com

Student's Name *

Akshata suhas mahadik

Roll No. *

7776

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**mugdarakanksha@gmail.com**) was recorded on submission of this form.

Email *

mugdarakanksha@gmail.com

Student's Name *

AKANKSHA NILESH MUGDAR

Roll No. *

7566

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
- b
- c
- d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
- b
- c
- d
- Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**jisna100102@gmail.com**) was recorded on submission of this form.

Email *

jisna100102@gmail.com

Student's Name *

Jisna Anoop Mathew

Roll No. *

7561

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

a

b

c

d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

a

b

c

d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

 $B(m,n) = \text{-----}$

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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B.Sc. Part-II, Semester-III, Internal Examination, Subject-Mathematics

PAPER NAME - Differential and Integral Calculus

DATE - 24/02/2021

TIME - 10.00am TO 10.30am

TOTAL MARKS :20

Instructions -

1) Each question carries 2 marks.

The respondent's email (**sammedrpatil@gmail.com**) was recorded on submission of this form.

Email *

sammedrpatil@gmail.com

Student's Name *

Sammed patil

Roll No. *

7757

Q.1.

2 points

If $x=r\cos\theta$, $y=r\sin\theta$, then $\frac{\partial(x,y)}{\partial(r,\theta)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{\sqrt{x^2+y^2}}$ d) $\frac{-1}{\sqrt{x^2+y^2}}$

- a
 b
 c
 d

Q.2.

2 points

If $x=u+v$, $y=u-v$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 2 b) -2 c) 1 d) -1

- a
 b
 c
 d
 Other:

Q.3.

2 points

If $u=x+y+z$, $v=2x+2y+2z$, $w=3x+3y+3z$, then $\frac{\partial(u,v,w)}{\partial(x,y,z)} = \text{-----}$

- a) 0 b) 1 c) -1 d) 2

- a
 b
 c
 d

Q.4.

2 points

If $x=\sqrt{uv}$, $y=\sqrt{\frac{u}{v}}$, then $\frac{\partial(x,y)}{\partial(u,v)} = \text{-----}$

- a) 0 b) 1 c) $\frac{1}{2v}$ d) $\frac{-1}{2v}$

- a
 b
 c
 d

Q.5.

2 points

If $J = \frac{\partial(x,y)}{\partial(u,v)}$, $J' = \frac{\partial(u,v)}{\partial(x,y)}$, then -----

- a) $JJ' = 0$ b) $JJ' = 1$ c) $JJ' \neq 1$ d) None

a

b

c

d

Q.6.

2 points

$\int_0^{\infty} x^7 e^{-2x^2} dx = \text{-----}$

- a) $\frac{2}{15}$ b) $\frac{1}{2}$ c) $\frac{3}{16}$ d) 0

a

b

c

d

Q.7.

2 points

B(m,n) = -----

a) $\int_0^{\infty} \frac{x^{m-1}}{(1+x)^{m+n}} dx$

b) $\int_0^1 x^{m-1}(1-x)^{n-1} dx$

c) $2 \int_0^{\frac{\pi}{2}} (\sin x)^{2m-1} (\cos x)^{2n-1} dx$

d) All

 a b c d

Q.8.

2 points

$$\int_0^{\frac{\pi}{4}} (\sin 4x)^2 (\cos 2x)^3 dx = \text{-----}$$

a) $\frac{16}{95}$

b) $\frac{16}{105}$

c) $\frac{13}{105}$

d) $\frac{13}{95}$

 a b c d

Q.9.

2 points

$$\int_0^{\infty} \frac{x^4(1-x^5)}{(1+x)^{15}} dx = \text{-----}$$

- a) 0 b) 1 c) B(5,10) d) ∞

 a b c d

Q.10.

2 points

$$n B(m+1, n) = \text{-----}$$

- a) $mn B(m, n)$ b) $m B(m, n+1)$ c) $(m+n) B(m, n)$ d) $B(m, n+1)$

 a b c d

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