

Internal Exam

Sem -1 Sub - Algebra

The respondent's email (**abhishektambe36@gmail.com**) was recorded on submission of this form.

Email *

abhishektambe36@gmail.com

Name *

Abhishek Tambe

Roll No *

1239

Class *

M.Sc I



Questions

All questions are compulsory.

*

2 points

If G is non abelian group for which $|G|=343$ and Z is center of G then

- a) $|Z|=3$
- b) $|Z|=1$
- c) $|Z|=7$
- d) $|Z|=49$

- A
- B
- C
- D

*

2 points

Number of generators of cyclic group of order 7^2 is

- a) 62
- b) 23
- c) 42
- d) 49

- A
- B
- C
- D

*

2 points

The identity element of the multiplicative group

$\left\{ \begin{pmatrix} a & a \\ a & a \end{pmatrix} \mid a \in \mathbb{R}, a \neq 0 \right\}$ is

a) $\begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}$

b) $\begin{pmatrix} 1 & 1 \\ 1 & 1 \end{pmatrix}$

c) $\begin{pmatrix} 1/2 & 1/2 \\ 1/2 & 1/2 \end{pmatrix}$

d) Not exists

A

B

C

D

*

2 points

Consider the statements

i) Every abelian group is solvable

ii) The commutator subgroup K' of any normal subgroup K of a group G is normal subgroup of G

- a) Only (i) true
- b) Only (ii) true
- c) Both (i) and (ii) true
- d) Both (i) and (ii) false

- A
- B
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*

2 points

The group S_n is not solvable for

- a) $n \geq 3$
- b) $n \geq 4$
- c) $n \geq 5$
- d) $n \geq 6$

- A
- B
- C
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*

2 points

Which of the following is possible for the class equation of group G?

- a) $10 = 1+1+1+2+5$
- b) $4 = 1+1+2$
- c) $8 = 1+1+3+3$
- d) $6 = 1+2+3$

A

B

C

D

*

2 points

The group integers under addition has

- a) Composition series
- b) Normal subgroup
- c) No composition series
- d) No identity element.

A

B

C

D

*

2 points

Any two composition series of a group are.....

- a) Isomorphic
- b) Isomorphic refinements
- c) Non- isomorphic
- d) Dose not have isomorphic refinements

A

B

C

D

*

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Consider the statements

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A

B

C

D

*

2 points

What is the highest order of element in group S_5 ?

- a) 5
- b) 6
- c) 7
- d) 8

A

B

C

D

*

2 points

If M is maximal normal subgroup of G iff $\frac{G}{M}$ is

- a) Normal
- b) Abelian
- c) Non-abelian
- d) Simple

A

B

C

D

*

2 points

Number of elements of order 2 in $S_3 \times Z_4$ is

- a) 6
- b) 7
- c) 8
- d) 9

- A
- B
- C
- D

*

2 points

The fundamental group of circles is.....

- a) Trivial
- b) Non-abelian
- c) Infinite cyclic
- d) Finite cyclic

- A
- B
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2 points

Which of the following group is simple?

- a) D_3
- b) Icosahedral group
- c) S_3
- d) Cyclic group of order 15

- A
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*

2 points

The number of abelian groups of order 15 up to isomorphism is.....

- a) 1
- b) 2
- c) 3
- d) 4

- A
- B
- C
- D

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Internal Exam

Sem -1 Sub - Algebra

The respondent's email (**sutarshivani1111@gmail.com**) was recorded on submission of this form.

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Name *

Shivani Anil Sutar

Roll No *

1237

Class *

M.Sc I



Questions

All questions are compulsory.

*

2 points

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- b) $|Z|=1$
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B

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- b) 2
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A

B

C

D

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Sem -1 Sub - Algebra

The respondent's email (**kamblebhimrao1990@gmail.com**) was recorded on submission of this form.

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kamblebhimrao1990@gmail.com

Name *

Manisha Bhimrao Kamble

Roll No *

1213

Class *

M.Sc I



Questions

All questions are compulsory.

*

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B

C

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A

B

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A

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*

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A

B

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D

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A

B

C

D

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Internal Exam

Sem -1 Sub - Algebra

The respondent's email (**sa9011171647@gmail.com**) was recorded on submission of this form.

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Name *

Shubham Tanaji Kamble

Roll No *

1215

Class *

M.Sc I



Questions

All questions are compulsory.

*

2 points

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2 points

Which of the following group is simple?

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*

2 points

The number of abelian groups of order 15 up to isomorphism is.....

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- b) 2
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- A
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Internal Exam

Sem -1 Sub - Algebra

The respondent's email (**sharayudurugale22@gmail.com**) was recorded on submission of this form.

Email *

sharayudurugale22@gmail.com

Name *

Sharayu Dinkar Durugale

Roll No *

1207

Class *

M.Sc I



Questions

All questions are compulsory.

*

2 points

If G is non abelian group for which $|G|=343$ and Z is center of G then

- a) $|Z|=3$
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Sem -1 Sub - Algebra

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

Email *

shrutikhochage@gmail.com

Name *

Shruti Khochage

Roll No *

1217

Class *

M.Sc I



Questions

All questions are compulsory.

*

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

Email *

ingaleaakanksha@gmail.com

Name *

Aakanksha ingale

Roll No *

1209

Class *

M.Sc I



Questions

All questions are compulsory.

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d) Not exists

A

B

C

D

*

2 points

Consider the statements

i) Every abelian group is solvable

ii) The commutator subgroup K' of any normal subgroup K of a group G is normal subgroup of G

- a) Only (i) true
- b) Only (ii) true
- c) Both (i) and (ii) true
- d) Both (i) and (ii) false

- A
- B
- C
- D

*

2 points

The group S_n is not solvable for

- a) $n \geq 3$
- b) $n \geq 4$
- c) $n \geq 5$
- d) $n \geq 6$

- A
- B
- C
- D

*

2 points

Which of the following is possible for the class equation of group G?

- a) $10 = 1+1+1+2+5$
- b) $4 = 1+1+2$
- c) $8 = 1+1+3+3$
- d) $6 = 1+2+3$

- A
- B
- C
- D

*

2 points

The group integers under addition has

- a) Composition series
- b) Normal subgroup
- c) No composition series
- d) No identity element.

- A
- B
- C
- D

*

2 points

Any two composition series of a group are.....

- a) Isomorphic
- b) Isomorphic refinements
- c) Non- isomorphic
- d) Dose not have isomorphic refinements

A

B

C

D

*

2 points

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- b) Only (ii) true
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A

B

C

D

*

2 points

What is the highest order of element in group S_5 ?

- a) 5
- b) 6
- c) 7
- d) 8

- A
- B
- C
- D

*

2 points

If M is maximal normal subgroup of G iff $\frac{G}{M}$ is

- a) Normal
- b) Abelian
- c) Non-abelian
- d) Simple

- A
- B
- C
- D

*

2 points

Number of elements of order 2 in $S_3 \times Z_4$ is

- a) 6
- b) 7
- c) 8
- d) 9

- A
- B
- C
- D

*

2 points

The fundamental group of circles is.....

- a) Trivial
- b) Non-abelian
- c) Infinite cyclic
- d) Finite cyclic

- A
- B
- C
- D

*

2 points

Which of the following group is simple?

- a) D_3
- b) Icosahedral group
- c) S_3
- d) Cyclic group of order 15

A

B

C

D

*

2 points

The number of abelian groups of order 15 up to isomorphism is.....

- a) 1
- b) 2
- c) 3
- d) 4

A

B

C

D

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Internal Exam

Sem -1 Sub - Algebra

The respondent's email (**pruthvirajpatil582@gmail.com**) was recorded on submission of this form.

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Name *

Pruthviraj vikas patil

Roll No *

1225

Class *

M.Sc I



Questions

All questions are compulsory.

*

2 points

If G is non abelian group for which $|G|=343$ and Z is center of G then

- a) $|Z|=3$
- b) $|Z|=1$
- c) $|Z|=7$
- d) $|Z|=49$

- A
- B
- C
- D

*

2 points

Number of generators of cyclic group of order 7^2 is

- a) 62
- b) 23
- c) 42
- d) 49

- A
- B
- C
- D

*

2 points

The identity element of the multiplicative group

$\left\{ \begin{pmatrix} a & a \\ a & a \end{pmatrix} \mid a \in \mathbb{R}, a \neq 0 \right\}$ is

a) $\begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}$

b) $\begin{pmatrix} 1 & 1 \\ 1 & 1 \end{pmatrix}$

c) $\begin{pmatrix} 1/2 & 1/2 \\ 1/2 & 1/2 \end{pmatrix}$

d) Not exists

A

B

C

D

*

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- A
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- C
- D

*

2 points

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- A
- B
- C
- D

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- A
- B
- C
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*

2 points

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- A
- B
- C
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*

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- c) Non- isomorphic
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A

B

C

D

*

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A

B

C

D

*

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- b) 6
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A

B

C

D

*

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- b) Abelian
- c) Non-abelian
- d) Simple

A

B

C

D

*

2 points

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- a) 6
- b) 7
- c) 8
- d) 9

- A
- B
- C
- D

*

2 points

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- A
- B
- C
- D

*

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- A
- B
- C
- D

*

2 points

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- a) 1
- b) 2
- c) 3
- d) 4

- A
- B
- C
- D

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Internal Exam

Sem -1 Sub - Algebra

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Name *

Mrudula G. Goliwadekar

Roll No *

1208

Class *

M.Sc I



Questions

All questions are compulsory.

*

2 points

If G is non abelian group for which $|G|=343$ and Z is center of G then

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- b) $|Z|=1$
- c) $|Z|=7$
- d) $|Z|=49$

- A
- B
- C
- D

*

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- B
- C
- D

*

2 points

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d) Not exists

A

B

C

D

*

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- A
- B
- C
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*

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- A
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*

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- B
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*

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- A
- B
- C
- D

*

2 points

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- a) Isomorphic
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- c) Non- isomorphic
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A

B

C

D

*

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A

B

C

D

*

2 points

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- b) 6
- c) 7
- d) 8

- A
- B
- C
- D

*

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- a) Normal
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- c) Non-abelian
- d) Simple

- A
- B
- C
- D

*

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- a) 6
- b) 7
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- d) 9

- A
- B
- C
- D

*

2 points

The fundamental group of circles is.....

- a) Trivial
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- d) Finite cyclic

- A
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*

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A

B

C

D

*

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- b) 2
- c) 3
- d) 4

A

B

C

D

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Internal Exam

Sem -1 Sub - Algebra

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Email *

todakarshubhangi3437@gmail.com

Name *

Shubhangi shivaji todakar

Roll No *

1238

Class *

M.Sc I



Questions

All questions are compulsory.

*

2 points

If G is non abelian group for which $|G|=343$ and Z is center of G then

- a) $|Z|=3$
- b) $|Z|=1$
- c) $|Z|=7$
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A

B

C

D

*

2 points

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- c) 42
- d) 49

A

B

C

D

*

2 points

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A

B

C

D

*

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- A
- B
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- D

*

2 points

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- c) $n \geq 5$
- d) $n \geq 6$

- A
- B
- C
- D

*

2 points

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- A
- B
- C
- D

*

2 points

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- A
- B
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*

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Any two composition series of a group are.....

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A

B

C

D

*

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A

B

C

D

*

2 points

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- b) 6
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- A
- B
- C
- D

*

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- c) Non-abelian
- d) Simple

- A
- B
- C
- D

*

2 points

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- c) 8
- d) 9

- A
- B
- C
- D

*

2 points

The fundamental group of circles is.....

- a) Trivial
- b) Non-abelian
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- A
- B
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*

2 points

Which of the following group is simple?

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A

B

C

D

*

2 points

The number of abelian groups of order 15 up to isomorphism is.....

- a) 1
- b) 2
- c) 3
- d) 4

A

B

C

D

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Internal Exam

Sem -1 Sub - Algebra

The respondent's email (**sdpatil204@gmail.com**) was recorded on submission of this form.

Email *

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Name *

Sharad dhanaji patil

Roll No *

1227

Class *

M.Sc I



Questions

All questions are compulsory.

*

2 points

If G is non abelian group for which $|G|=343$ and Z is center of G then

- a) $|Z|=3$
- b) $|Z|=1$
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- A
- B
- C
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*

2 points

Number of generators of cyclic group of order 7^2 is

- a) 62
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- c) 42
- d) 49

- A
- B
- C
- D

*

2 points

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d) Not exists

A

B

C

D

*

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Consider the statements

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- A
- B
- C
- D

*

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- d) $n \geq 6$

- A
- B
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- D

*

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*

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- D

*

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A

B

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D

*

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A

B

C

D

*

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*

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- B
- C
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*

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*

2 points

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2 points

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*

2 points

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- A
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- D

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Internal Exam

Sem -1 Sub - Algebra

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

Email *

nemishteruturaj@gmail.com

Name *

Ruturaj nemishte

Roll No *

1221

Class *

M.Sc I



Questions

All questions are compulsory.

*

2 points

If G is non abelian group for which $|G|=343$ and Z is center of G then

- a) $|Z|=3$
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A

B

C

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*

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*

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*

2 points

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*

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*

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A

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*

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*

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- A
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- C
- D

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Internal Exam

Sem -1 Sub - Algebra

The respondent's email (**manepratibha08@gmail.com**) was recorded on submission of this form.

Email *

manepratibha08@gmail.com

Name *

Pratibha Narayan Mane

Roll No *

1220

Class *

M.Sc I



Questions

All questions are compulsory.

*

2 points

If G is non abelian group for which $|G|=343$ and Z is center of G then

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*

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*

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*

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*

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- c) $8 = 1+1+3+3$
- d) $6 = 1+2+3$

- A
- B
- C
- D

*

2 points

The group integers under addition has

- a) Composition series
- b) Normal subgroup
- c) No composition series
- d) No identity element.

- A
- B
- C
- D

*

2 points

Any two composition series of a group are.....

- a) Isomorphic
- b) Isomorphic refinements
- c) Non- isomorphic
- d) Dose not have isomorphic refinements

A

B

C

D

*

2 points

Consider the statements

i) Every abelian group is nilpotent

ii) Every nilpotent group is solvable

- a) Only (i) true
- b) Only (ii) true
- c) Both (i) and (ii) true
- d) Both (i) and (ii) false

A

B

C

D

*

2 points

What is the highest order of element in group S_5 ?

- a) 5
- b) 6
- c) 7
- d) 8

A

B

C

D

*

2 points

If M is maximal normal subgroup of G iff $\frac{G}{M}$ is

- a) Normal
- b) Abelian
- c) Non-abelian
- d) Simple

A

B

C

D

*

2 points

Number of elements of order 2 in $S_3 \times Z_4$ is

- a) 6
- b) 7
- c) 8
- d) 9

- A
- B
- C
- D

*

2 points

The fundamental group of circles is.....

- a) Trivial
- b) Non-abelian
- c) Infinite cyclic
- d) Finite cyclic

- A
- B
- C
- D

*

2 points

Which of the following group is simple?

- a) D_3
- b) Icosahedral group
- c) S_3
- d) Cyclic group of order 15

- A
- B
- C
- D

*

2 points

The number of abelian groups of order 15 up to isomorphism is.....

- a) 1
- b) 2
- c) 3
- d) 4

- A
- B
- C
- D

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Internal Exam

Sem -1 Sub - Algebra

The respondent's email (**sonalisankpal007@gmail.com**) was recorded on submission of this form.

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Name *

Sonali Sarjerao Sankpal

Roll No *

1233

Class *

M.Sc I



Questions

All questions are compulsory.

*

2 points

If G is non abelian group for which $|G|=343$ and Z is center of G then

- a) $|Z|=3$
- b) $|Z|=1$
- c) $|Z|=7$
- d) $|Z|=49$

- A
- B
- C
- D

*

2 points

Number of generators of cyclic group of order 7^2 is

- a) 62
- b) 23
- c) 42
- d) 49

- A
- B
- C
- D

*

2 points

The identity element of the multiplicative group

$\left\{ \begin{pmatrix} a & a \\ a & a \end{pmatrix} \mid a \in \mathbb{R}, a \neq 0 \right\}$ is

a) $\begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}$

b) $\begin{pmatrix} 1 & 1 \\ 1 & 1 \end{pmatrix}$

c) $\begin{pmatrix} 1/2 & 1/2 \\ 1/2 & 1/2 \end{pmatrix}$

d) Not exists

A

B

C

D

*

2 points

Consider the statements

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- a) Only (i) true
- b) Only (ii) true
- c) Both (i) and (ii) true
- d) Both (i) and (ii) false

- A
- B
- C
- D

*

2 points

The group S_n is not solvable for

- a) $n \geq 3$
- b) $n \geq 4$
- c) $n \geq 5$
- d) $n \geq 6$

- A
- B
- C
- D

*

2 points

Which of the following is possible for the class equation of group G?

- a) $10 = 1+1+1+2+5$
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- c) $8 = 1+1+3+3$
- d) $6 = 1+2+3$

- A
- B
- C
- D

*

2 points

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- c) No composition series
- d) No identity element.

- A
- B
- C
- D

*

2 points

Any two composition series of a group are.....

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- c) Non- isomorphic
- d) Dose not have isomorphic refinements

A

B

C

D

*

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- d) Both (i) and (ii) false

A

B

C

D

*

2 points

What is the highest order of element in group S_5 ?

- a) 5
- b) 6
- c) 7
- d) 8

A

B

C

D

*

2 points

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- a) Normal
- b) Abelian
- c) Non-abelian
- d) Simple

A

B

C

D

*

2 points

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- a) 6
- b) 7
- c) 8
- d) 9

- A
- B
- C
- D

*

2 points

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- a) Trivial
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- d) Finite cyclic

- A
- B
- C
- D

*

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- c) S_3
- d) Cyclic group of order 15

A

B

C

D

*

2 points

The number of abelian groups of order 15 up to isomorphism is.....

- a) 1
- b) 2
- c) 3
- d) 4

A

B

C

D

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Internal Exam

Sem -1 Sub - Algebra

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Name *

Asmita Adinath Chougule

Roll No *

1205

Class *

M.Sc I



Questions

All questions are compulsory.

*

2 points

If G is non abelian group for which $|G|=343$ and Z is center of G then

- a) $|Z|=3$
- b) $|Z|=1$
- c) $|Z|=7$
- d) $|Z|=49$

- A
- B
- C
- D

*

2 points

Number of generators of cyclic group of order 7^2 is

- a) 62
- b) 23
- c) 42
- d) 49

- A
- B
- C
- D

*

2 points

The identity element of the multiplicative group

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d) Not exists

A

B

C

D

*

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- A
- B
- C
- D

*

2 points

The group S_n is not solvable for

- a) $n \geq 3$
- b) $n \geq 4$
- c) $n \geq 5$
- d) $n \geq 6$

- A
- B
- C
- D

*

2 points

Which of the following is possible for the class equation of group G?

- a) $10 = 1+1+1+2+5$
- b) $4 = 1+1+2$
- c) $8 = 1+1+3+3$
- d) $6 = 1+2+3$

- A
- B
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*

2 points

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- A
- B
- C
- D

*

2 points

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- c) Non- isomorphic
- d) Dose not have isomorphic refinements

A

B

C

D

*

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A

B

C

D

*

2 points

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- a) 5
- b) 6
- c) 7
- d) 8

A

B

C

D

*

2 points

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- b) Abelian
- c) Non-abelian
- d) Simple

A

B

C

D

*

2 points

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- a) 6
- b) 7
- c) 8
- d) 9

- A
- B
- C
- D

*

2 points

The fundamental group of circles is.....

- a) Trivial
- b) Non-abelian
- c) Infinite cyclic
- d) Finite cyclic

- A
- B
- C
- D

*

2 points

Which of the following group is simple?

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- c) S_3
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- A
- B
- C
- D

*

2 points

The number of abelian groups of order 15 up to isomorphism is.....

- a) 1
- b) 2
- c) 3
- d) 4

- A
- B
- C
- D

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Internal Exam

Sem -1 Sub - Algebra

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Name *

Kolekar Shivani Tanaji

Roll No *

1218

Class *

M.Sc I



Questions

All questions are compulsory.

*

2 points

If G is non abelian group for which $|G|=343$ and Z is center of G then

- a) $|Z|=3$
- b) $|Z|=1$
- c) $|Z|=7$
- d) $|Z|=49$

- A
- B
- C
- D

*

2 points

Number of generators of cyclic group of order 7^2 is

- a) 62
- b) 23
- c) 42
- d) 49

- A
- B
- C
- D

*

2 points

The identity element of the multiplicative group

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c) $\begin{pmatrix} 1/2 & 1/2 \\ 1/2 & 1/2 \end{pmatrix}$

d) Not exists

A

B

C

D

*

2 points

Consider the statements

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- a) Only (i) true
- b) Only (ii) true
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- d) Both (i) and (ii) false

- A
- B
- C
- D

*

2 points

The group S_n is not solvable for

- a) $n \geq 3$
- b) $n \geq 4$
- c) $n \geq 5$
- d) $n \geq 6$

- A
- B
- C
- D

*

2 points

Which of the following is possible for the class equation of group G?

- a) $10 = 1+1+1+2+5$
- b) $4 = 1+1+2$
- c) $8 = 1+1+3+3$
- d) $6 = 1+2+3$

- A
- B
- C
- D

*

2 points

The group integers under addition has

- a) Composition series
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- c) No composition series
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- A
- B
- C
- D

*

2 points

Any two composition series of a group are.....

- a) Isomorphic
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- c) Non- isomorphic
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- A
- B
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- D

*

2 points

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- A
- B
- C
- D

*

2 points

What is the highest order of element in group S_5 ?

- a) 5
- b) 6
- c) 7
- d) 8

- A
- B
- C
- D

*

2 points

If M is maximal normal subgroup of G iff $\frac{G}{M}$ is

- a) Normal
- b) Abelian
- c) Non-abelian
- d) Simple

- A
- B
- C
- D

*

2 points

Number of elements of order 2 in $S_3 \times Z_4$ is

- a) 6
- b) 7
- c) 8
- d) 9

- A
- B
- C
- D

*

2 points

The fundamental group of circles is.....

- a) Trivial
- b) Non-abelian
- c) Infinite cyclic
- d) Finite cyclic

- A
- B
- C
- D

*

2 points

Which of the following group is simple?

- a) D_3
- b) Icosahedral group
- c) S_3
- d) Cyclic group of order 15

A

B

C

D

*

2 points

The number of abelian groups of order 15 up to isomorphism is.....

- a) 1
- b) 2
- c) 3
- d) 4

A

B

C

D

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Internal Exam

Sem -1 Sub - Algebra

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shivaratnajamboni2014@gmail.com

Name *

Shivaratna Jamboni

Roll No *

1211

Class *

M.Sc I



Questions

All questions are compulsory.

*

2 points

If G is non abelian group for which $|G|=343$ and Z is center of G then

- a) $|Z|=3$
- b) $|Z|=1$
- c) $|Z|=7$
- d) $|Z|=49$

- A
- B
- C
- D

*

2 points

Number of generators of cyclic group of order 7^2 is

- a) 62
- b) 23
- c) 42
- d) 49

- A
- B
- C
- D

*

2 points

The identity element of the multiplicative group

$\left\{ \begin{pmatrix} a & a \\ a & a \end{pmatrix} \mid a \in \mathbb{R}, a \neq 0 \right\}$ is

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b) $\begin{pmatrix} 1 & 1 \\ 1 & 1 \end{pmatrix}$

c) $\begin{pmatrix} 1/2 & 1/2 \\ 1/2 & 1/2 \end{pmatrix}$

d) Not exists

A

B

C

D

*

2 points

Consider the statements

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- a) Only (i) true
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- A
- B
- C
- D

*

2 points

The group S_n is not solvable for

- a) $n \geq 3$
- b) $n \geq 4$
- c) $n \geq 5$
- d) $n \geq 6$

- A
- B
- C
- D

*

2 points

Which of the following is possible for the class equation of group G?

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- c) $8 = 1+1+3+3$
- d) $6 = 1+2+3$

- A
- B
- C
- D

*

2 points

The group integers under addition has

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*

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Any two composition series of a group are.....

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A

B

C

D

*

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A

B

C

D

*

2 points

What is the highest order of element in group S_5 ?

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- b) 6
- c) 7
- d) 8

A

B

C

D

*

2 points

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- c) Non-abelian
- d) Simple

A

B

C

D

*

2 points

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- a) 6
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- d) 9

- A
- B
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*

2 points

The fundamental group of circles is.....

- a) Trivial
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- A
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*

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- A
- B
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*

2 points

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- A
- B
- C
- D

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Internal Exam

Sem -1 Sub - Algebra

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mrunali9399@gmali.com

Name *

Mrunali Solapure

Roll No *

1236

Class *

M.Sc I



Questions

All questions are compulsory.

*

2 points

If G is non abelian group for which $|G|=343$ and Z is center of G then

- a) $|Z|=3$
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- A
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- C
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*

2 points

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- a) 62
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- B
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*

2 points

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A

B

C

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*

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*

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*

2 points

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- d) $6 = 1+2+3$

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*

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*

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A

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*

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A

B

C

D

*

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*

2 points

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- A
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- D

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Internal Exam

Sem -1 Sub - Algebra

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vidulapatil01999@gmail.com

Name *

Vidula Patil

Roll No *

1229

Class *

M.Sc I



Questions

All questions are compulsory.

*

2 points

If G is non abelian group for which $|G|=343$ and Z is center of G then

- a) $|Z|=3$
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2 points

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- a) 62
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*

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*

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- B
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*

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*

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A

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*

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A

B

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D

*

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2 points

If M is maximal normal subgroup of G iff $\frac{G}{M}$ is

- a) Normal
- b) Abelian
- c) Non-abelian
- d) Simple

A

B

C

D

*

2 points

Number of elements of order 2 in $S_3 \times Z_4$ is

- a) 6
- b) 7
- c) 8
- d) 9

- A
- B
- C
- D

*

2 points

The fundamental group of circles is.....

- a) Trivial
- b) Non-abelian
- c) Infinite cyclic
- d) Finite cyclic

- A
- B
- C
- D

*

2 points

Which of the following group is simple?

- a) D_3
- b) Icosahedral group
- c) S_3
- d) Cyclic group of order 15

A

B

C

D

*

2 points

The number of abelian groups of order 15 up to isomorphism is.....

- a) 1
- b) 2
- c) 3
- d) 4

A

B

C

D

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Internal Exam

Sem -1 Sub - Algebra

The respondent's email (**vedukadam2000@gmail.com**) was recorded on submission of this form.

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vedukadam2000@gmail.com

Name *

Vedika kadam

Roll No *

1212

Class *

M.Sc I



Questions

All questions are compulsory.

*

2 points

If G is non abelian group for which $|G|=343$ and Z is center of G then

- a) $|Z|=3$
- b) $|Z|=1$
- c) $|Z|=7$
- d) $|Z|=49$

- A
- B
- C
- D

*

2 points

Number of generators of cyclic group of order 7^2 is

- a) 62
- b) 23
- c) 42
- d) 49

- A
- B
- C
- D

*

2 points

The identity element of the multiplicative group

$\left\{ \begin{pmatrix} a & a \\ a & a \end{pmatrix} \mid a \in \mathbb{R}, a \neq 0 \right\}$ is

a) $\begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}$

b) $\begin{pmatrix} 1 & 1 \\ 1 & 1 \end{pmatrix}$

c) $\begin{pmatrix} 1/2 & 1/2 \\ 1/2 & 1/2 \end{pmatrix}$

d) Not exists

A

B

C

D

*

2 points

Consider the statements

i) Every abelian group is solvable

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- a) Only (i) true
- b) Only (ii) true
- c) Both (i) and (ii) true
- d) Both (i) and (ii) false

- A
- B
- C
- D

*

2 points

The group S_n is not solvable for

- a) $n \geq 3$
- b) $n \geq 4$
- c) $n \geq 5$
- d) $n \geq 6$

- A
- B
- C
- D

*

2 points

Which of the following is possible for the class equation of group G?

- a) $10 = 1+1+1+2+5$
- b) $4 = 1+1+2$
- c) $8 = 1+1+3+3$
- d) $6 = 1+2+3$

- A
- B
- C
- D

*

2 points

The group integers under addition has

- a) Composition series
- b) Normal subgroup
- c) No composition series
- d) No identity element.

- A
- B
- C
- D

*

2 points

Any two composition series of a group are.....

- a) Isomorphic
- b) Isomorphic refinements
- c) Non- isomorphic
- d) Dose not have isomorphic refinements

A

B

C

D

*

2 points

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- a) Only (i) true
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- d) Both (i) and (ii) false

A

B

C

D

*

2 points

What is the highest order of element in group S_5 ?

- a) 5
- b) 6
- c) 7
- d) 8

A

B

C

D

*

2 points

If M is maximal normal subgroup of G iff $\frac{G}{M}$ is

- a) Normal
- b) Abelian
- c) Non-abelian
- d) Simple

A

B

C

D

*

2 points

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- a) 6
- b) 7
- c) 8
- d) 9

- A
- B
- C
- D

*

2 points

The fundamental group of circles is.....

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- b) Non-abelian
- c) Infinite cyclic
- d) Finite cyclic

- A
- B
- C
- D

*

2 points

Which of the following group is simple?

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- c) S_3
- d) Cyclic group of order 15

- A
- B
- C
- D

*

2 points

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- a) 1
- b) 2
- c) 3
- d) 4

- A
- B
- C
- D

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Internal Exam

Sem -1 Sub - Algebra

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Name *

Bate Sonali Shankar

Roll No *

1202

Class *

M.Sc I



Questions

All questions are compulsory.

*

2 points

If G is non abelian group for which $|G|=343$ and Z is center of G then

- a) $|Z|=3$
- b) $|Z|=1$
- c) $|Z|=7$
- d) $|Z|=49$

- A
- B
- C
- D

*

2 points

Number of generators of cyclic group of order 7^2 is

- a) 62
- b) 23
- c) 42
- d) 49

- A
- B
- C
- D

*

2 points

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d) Not exists

A

B

C

D

*

2 points

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- A
- B
- C
- D

*

2 points

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- c) $n \geq 5$
- d) $n \geq 6$

- A
- B
- C
- D

*

2 points

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- d) $6 = 1+2+3$

- A
- B
- C
- D

*

2 points

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- c) No composition series
- d) No identity element.

- A
- B
- C
- D

*

2 points

Any two composition series of a group are.....

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- b) Isomorphic refinements
- c) Non- isomorphic
- d) Dose not have isomorphic refinements

A

B

C

D

*

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- a) Only (i) true
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A

B

C

D

*

2 points

What is the highest order of element in group S_5 ?

- a) 5
- b) 6
- c) 7
- d) 8

- A
- B
- C
- D

*

2 points

If M is maximal normal subgroup of G iff $\frac{G}{M}$ is

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- b) Abelian
- c) Non-abelian
- d) Simple

- A
- B
- C
- D

*

2 points

Number of elements of order 2 in $S_3 \times Z_4$ is

- a) 6
- b) 7
- c) 8
- d) 9

- A
- B
- C
- D

*

2 points

The fundamental group of circles is.....

- a) Trivial
- b) Non-abelian
- c) Infinite cyclic
- d) Finite cyclic

- A
- B
- C
- D

*

2 points

Which of the following group is simple?

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- c) S_3
- d) Cyclic group of order 15

- A
- B
- C
- D

*

2 points

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- a) 1
- b) 2
- c) 3
- d) 4

- A
- B
- C
- D

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Internal Exam

Sem -1 Sub - Algebra

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vipuldeokare24@gmail.com

Name *

Vipul Deokare

Roll No *

1206

Class *

M.Sc I



Questions

All questions are compulsory.

*

2 points

If G is non abelian group for which $|G|=343$ and Z is center of G then

- a) $|Z|=3$
- b) $|Z|=1$
- c) $|Z|=7$
- d) $|Z|=49$

A

B

C

D

*

2 points

Number of generators of cyclic group of order 7^2 is

- a) 62
- b) 23
- c) 42
- d) 49

A

B

C

D

*

2 points

The identity element of the multiplicative group

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c) $\begin{pmatrix} 1/2 & 1/2 \\ 1/2 & 1/2 \end{pmatrix}$

d) Not exists

A

B

C

D

*

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- A
- B
- C
- D

*

2 points

The group S_n is not solvable for

- a) $n \geq 3$
- b) $n \geq 4$
- c) $n \geq 5$
- d) $n \geq 6$

- A
- B
- C
- D

*

2 points

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- a) $10 = 1+1+1+2+5$
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- d) $6 = 1+2+3$

- A
- B
- C
- D

*

2 points

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- d) No identity element.

- A
- B
- C
- D

*

2 points

Any two composition series of a group are.....

- a) Isomorphic
- b) Isomorphic refinements
- c) Non- isomorphic
- d) Dose not have isomorphic refinements

A

B

C

D

*

2 points

Consider the statements

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A

B

C

D

*

2 points

What is the highest order of element in group S_5 ?

- a) 5
- b) 6
- c) 7
- d) 8

A

B

C

D

*

2 points

If M is maximal normal subgroup of G iff $\frac{G}{M}$ is

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- c) Non-abelian
- d) Simple

A

B

C

D

*

2 points

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- a) 6
- b) 7
- c) 8
- d) 9

- A
- B
- C
- D

*

2 points

The fundamental group of circles is.....

- a) Trivial
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- d) Finite cyclic

- A
- B
- C
- D

*

2 points

Which of the following group is simple?

- a) D_3
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- A
- B
- C
- D

*

2 points

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- a) 1
- b) 2
- c) 3
- d) 4

- A
- B
- C
- D

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Internal Exam

Sem -1 Sub - Algebra

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Name *

Kajal Amar Patil

Roll No *

1224

Class *

M.Sc I



Questions

All questions are compulsory.

*

2 points

If G is non abelian group for which $|G|=343$ and Z is center of G then

- a) $|Z|=3$
- b) $|Z|=1$
- c) $|Z|=7$
- d) $|Z|=49$

- A
- B
- C
- D

*

2 points

Number of generators of cyclic group of order 7^2 is

- a) 62
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- c) 42
- d) 49

- A
- B
- C
- D

*

2 points

The identity element of the multiplicative group

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c) $\begin{pmatrix} 1/2 & 1/2 \\ 1/2 & 1/2 \end{pmatrix}$

d) Not exists

A

B

C

D

*

2 points

Consider the statements

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- A
- B
- C
- D

*

2 points

The group S_n is not solvable for

- a) $n \geq 3$
- b) $n \geq 4$
- c) $n \geq 5$
- d) $n \geq 6$

- A
- B
- C
- D

*

2 points

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- c) $8 = 1+1+3+3$
- d) $6 = 1+2+3$

- A
- B
- C
- D

*

2 points

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- A
- B
- C
- D

*

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Any two composition series of a group are.....

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A

B

C

D

*

2 points

Consider the statements

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- a) Only (i) true
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A

B

C

D

*

2 points

What is the highest order of element in group S_5 ?

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- b) 6
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A

B

C

D

*

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- c) Non-abelian
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A

B

C

D

*

2 points

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- a) 6
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- c) 8
- d) 9

- A
- B
- C
- D

*

2 points

The fundamental group of circles is.....

- a) Trivial
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- A
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*

2 points

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A

B

C

D

*

2 points

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A

B

C

D

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Internal Exam

Sem -1 Sub - Algebra

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satheankita1087@gmail.com

Name *

Ankita Mahipati Sathe

Roll No *

1234

Class *

M.Sc I



Questions

All questions are compulsory.

*

2 points

If G is non abelian group for which $|G|=343$ and Z is center of G then

- a) $|Z|=3$
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- A
- B
- C
- D

*

2 points

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- B
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*

2 points

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A

B

C

D

*

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Consider the statements

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- A
- B
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*

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- A
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*

2 points

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*

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A

B

C

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*

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A

B

C

D

*

2 points

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- D

*

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- B
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*

2 points

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- B
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- D

*

2 points

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- A
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*

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- B
- C
- D

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Internal Exam

Sem -1 Sub - Algebra

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Name *

Abhijeet Bhagavan shelake

Roll No *

1235

Class *

M.Sc I



Questions

All questions are compulsory.

*

2 points

If G is non abelian group for which $|G|=343$ and Z is center of G then

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A

B

C

D

*

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B

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A

B

C

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*

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- A
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- A
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A

B

C

D

*

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A

B

C

D

*

2 points

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A

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C

D

*

2 points

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A

B

C

D

*

2 points

Number of elements of order 2 in $S_3 \times Z_4$ is

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- A
- B
- C
- D

*

2 points

The fundamental group of circles is.....

- a) Trivial
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- A
- B
- C
- D

*

2 points

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- A
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- C
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2 points

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- b) 2
- c) 3
- d) 4

- A
- B
- C
- D

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Internal Exam

Sem -1 Sub - Algebra

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Email *

rutujapatil2000.21@gmail.com

Name *

Rutuja Tanaji Patil

Roll No *

1226

Class *

M.Sc I



Questions

All questions are compulsory.

*

2 points

If G is non abelian group for which $|G|=343$ and Z is center of G then

- a) $|Z|=3$
- b) $|Z|=1$
- c) $|Z|=7$
- d) $|Z|=49$

- A
- B
- C
- D

*

2 points

Number of generators of cyclic group of order 7^2 is

- a) 62
- b) 23
- c) 42
- d) 49

- A
- B
- C
- D

*

2 points

The identity element of the multiplicative group

$\left\{ \begin{pmatrix} a & a \\ a & a \end{pmatrix} \mid a \in \mathbb{R}, a \neq 0 \right\}$ is

a) $\begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}$

b) $\begin{pmatrix} 1 & 1 \\ 1 & 1 \end{pmatrix}$

c) $\begin{pmatrix} 1/2 & 1/2 \\ 1/2 & 1/2 \end{pmatrix}$

d) Not exists

A

B

C

D

*

2 points

Consider the statements

i) Every abelian group is solvable

ii) The commutator subgroup K' of any normal subgroup K of a group G is normal subgroup of G

- a) Only (i) true
- b) Only (ii) true
- c) Both (i) and (ii) true
- d) Both (i) and (ii) false

- A
- B
- C
- D

*

2 points

The group S_n is not solvable for

- a) $n \geq 3$
- b) $n \geq 4$
- c) $n \geq 5$
- d) $n \geq 6$

- A
- B
- C
- D

*

2 points

Which of the following is possible for the class equation of group G?

- a) $10 = 1+1+1+2+5$
- b) $4 = 1+1+2$
- c) $8 = 1+1+3+3$
- d) $6 = 1+2+3$

- A
- B
- C
- D

*

2 points

The group integers under addition has

- a) Composition series
- b) Normal subgroup
- c) No composition series
- d) No identity element.

- A
- B
- C
- D

*

2 points

Any two composition series of a group are.....

- a) Isomorphic
- b) Isomorphic refinements
- c) Non- isomorphic
- d) Dose not have isomorphic refinements

A

B

C

D

*

2 points

Consider the statements

i) Every abelian group is nilpotent

ii) Every nilpotent group is solvable

- a) Only (i) true
- b) Only (ii) true
- c) Both (i) and (ii) true
- d) Both (i) and (ii) false

A

B

C

D

*

2 points

What is the highest order of element in group S_5 ?

- a) 5
- b) 6
- c) 7
- d) 8

A

B

C

D

*

2 points

If M is maximal normal subgroup of G iff $\frac{G}{M}$ is

- a) Normal
- b) Abelian
- c) Non-abelian
- d) Simple

A

B

C

D

*

2 points

Number of elements of order 2 in $S_3 \times Z_4$ is

- a) 6
- b) 7
- c) 8
- d) 9

- A
- B
- C
- D

*

2 points

The fundamental group of circles is.....

- a) Trivial
- b) Non-abelian
- c) Infinite cyclic
- d) Finite cyclic

- A
- B
- C
- D

*

2 points

Which of the following group is simple?

- a) D_3
- b) Icosahedral group
- c) S_3
- d) Cyclic group of order 15

- A
- B
- C
- D

*

2 points

The number of abelian groups of order 15 up to isomorphism is.....

- a) 1
- b) 2
- c) 3
- d) 4

- A
- B
- C
- D

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Internal Exam

Sem -1 Sub - Algebra

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Name *

Ashwini Ashok Jadhav

Roll No *

1210

Class *

M.Sc I



Questions

All questions are compulsory.

*

2 points

If G is non abelian group for which $|G|=343$ and Z is center of G then

- a) $|Z|=3$
- b) $|Z|=1$
- c) $|Z|=7$
- d) $|Z|=49$

- A
- B
- C
- D

*

2 points

Number of generators of cyclic group of order 7^2 is

- a) 62
- b) 23
- c) 42
- d) 49

- A
- B
- C
- D

*

2 points

The identity element of the multiplicative group

$\left\{ \begin{pmatrix} a & a \\ a & a \end{pmatrix} \mid a \in \mathbb{R}, a \neq 0 \right\}$ is

a) $\begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}$

b) $\begin{pmatrix} 1 & 1 \\ 1 & 1 \end{pmatrix}$

c) $\begin{pmatrix} 1/2 & 1/2 \\ 1/2 & 1/2 \end{pmatrix}$

d) Not exists

A

B

C

D

*

2 points

Consider the statements

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- a) Only (i) true
- b) Only (ii) true
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- A
- B
- C
- D

*

2 points

The group S_n is not solvable for

- a) $n \geq 3$
- b) $n \geq 4$
- c) $n \geq 5$
- d) $n \geq 6$

- A
- B
- C
- D

*

2 points

Which of the following is possible for the class equation of group G?

- a) $10 = 1+1+1+2+5$
- b) $4 = 1+1+2$
- c) $8 = 1+1+3+3$
- d) $6 = 1+2+3$

- A
- B
- C
- D

*

2 points

The group integers under addition has

- a) Composition series
- b) Normal subgroup
- c) No composition series
- d) No identity element.

- A
- B
- C
- D

*

2 points

Any two composition series of a group are.....

- a) Isomorphic
- b) Isomorphic refinements
- c) Non- isomorphic
- d) Dose not have isomorphic refinements

A

B

C

D

*

2 points

Consider the statements

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ii) Every nilpotent group is solvable

- a) Only (i) true
- b) Only (ii) true
- c) Both (i) and (ii) true
- d) Both (i) and (ii) false

A

B

C

D

*

2 points

What is the highest order of element in group S_5 ?

- a) 5
- b) 6
- c) 7
- d) 8

- A
- B
- C
- D

*

2 points

If M is maximal normal subgroup of G iff $\frac{G}{M}$ is

- a) Normal
- b) Abelian
- c) Non-abelian
- d) Simple

- A
- B
- C
- D

*

2 points

Number of elements of order 2 in $S_3 \times Z_4$ is

- a) 6
- b) 7
- c) 8
- d) 9

- A
- B
- C
- D

*

2 points

The fundamental group of circles is.....

- a) Trivial
- b) Non-abelian
- c) Infinite cyclic
- d) Finite cyclic

- A
- B
- C
- D

*

2 points

Which of the following group is simple?

- a) D_3
- b) Icosahedral group
- c) S_3
- d) Cyclic group of order 15

- A
- B
- C
- D

*

2 points

The number of abelian groups of order 15 up to isomorphism is.....

- a) 1
- b) 2
- c) 3
- d) 4

- A
- B
- C
- D

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Google Forms

Internal Exam

Sem -1 Sub - Algebra

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Email *

digvijaykhatkar2017@gmail.com

Name *

Digvijay Ashok Khatkar

Roll No *

1216

Class *

M.Sc I



Questions

All questions are compulsory.

*

2 points

If G is non abelian group for which $|G|=343$ and Z is center of G then

- a) $|Z|=3$
- b) $|Z|=1$
- c) $|Z|=7$
- d) $|Z|=49$

- A
- B
- C
- D

*

2 points

Number of generators of cyclic group of order 7^2 is

- a) 62
- b) 23
- c) 42
- d) 49

- A
- B
- C
- D

*

2 points

The identity element of the multiplicative group

$\left\{ \begin{pmatrix} a & a \\ a & a \end{pmatrix} \mid a \in \mathbb{R}, a \neq 0 \right\}$ is

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b) $\begin{pmatrix} 1 & 1 \\ 1 & 1 \end{pmatrix}$

c) $\begin{pmatrix} 1/2 & 1/2 \\ 1/2 & 1/2 \end{pmatrix}$

d) Not exists

A

B

C

D

*

2 points

Consider the statements

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- a) Only (i) true
- b) Only (ii) true
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- d) Both (i) and (ii) false

- A
- B
- C
- D

*

2 points

The group S_n is not solvable for

- a) $n \geq 3$
- b) $n \geq 4$
- c) $n \geq 5$
- d) $n \geq 6$

- A
- B
- C
- D

*

2 points

Which of the following is possible for the class equation of group G?

- a) $10 = 1+1+1+2+5$
- b) $4 = 1+1+2$
- c) $8 = 1+1+3+3$
- d) $6 = 1+2+3$

- A
- B
- C
- D

*

2 points

The group integers under addition has

- a) Composition series
- b) Normal subgroup
- c) No composition series
- d) No identity element.

- A
- B
- C
- D

*

2 points

Any two composition series of a group are.....

- a) Isomorphic
- b) Isomorphic refinements
- c) Non- isomorphic
- d) Dose not have isomorphic refinements

A

B

C

D

*

2 points

Consider the statements

i) Every abelian group is nilpotent

ii) Every nilpotent group is solvable

- a) Only (i) true
- b) Only (ii) true
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A

B

C

D

*

2 points

What is the highest order of element in group S_5 ?

- a) 5
- b) 6
- c) 7
- d) 8

A

B

C

D

*

2 points

If M is maximal normal subgroup of G iff $\frac{G}{M}$ is

- a) Normal
- b) Abelian
- c) Non-abelian
- d) Simple

A

B

C

D

*

2 points

Number of elements of order 2 in $S_3 \times Z_4$ is

- a) 6
- b) 7
- c) 8
- d) 9

- A
- B
- C
- D

*

2 points

The fundamental group of circles is.....

- a) Trivial
- b) Non-abelian
- c) Infinite cyclic
- d) Finite cyclic

- A
- B
- C
- D

*

2 points

Which of the following group is simple?

- a) D_3
- b) Icosahedral group
- c) S_3
- d) Cyclic group of order 15

- A
- B
- C
- D

*

2 points

The number of abelian groups of order 15 up to isomorphism is.....

- a) 1
- b) 2
- c) 3
- d) 4

- A
- B
- C
- D

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Internal Exam

Sem -1 Sub - Algebra

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Name *

Poonam Regade

Roll No *

1232

Class *

M.Sc I



Questions

All questions are compulsory.

*

2 points

If G is non abelian group for which $|G|=343$ and Z is center of G then

- a) $|Z|=3$
- b) $|Z|=1$
- c) $|Z|=7$
- d) $|Z|=49$

- A
- B
- C
- D

*

2 points

Number of generators of cyclic group of order 7^2 is

- a) 62
- b) 23
- c) 42
- d) 49

- A
- B
- C
- D

*

2 points

The identity element of the multiplicative group

$\left\{ \begin{pmatrix} a & a \\ a & a \end{pmatrix} \mid a \in \mathbb{R}, a \neq 0 \right\}$ is

a) $\begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}$

b) $\begin{pmatrix} 1 & 1 \\ 1 & 1 \end{pmatrix}$

c) $\begin{pmatrix} 1/2 & 1/2 \\ 1/2 & 1/2 \end{pmatrix}$

d) Not exists

A

B

C

D

*

2 points

Consider the statements

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- a) Only (i) true
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- c) Both (i) and (ii) true
- d) Both (i) and (ii) false

- A
- B
- C
- D

*

2 points

The group S_n is not solvable for

- a) $n \geq 3$
- b) $n \geq 4$
- c) $n \geq 5$
- d) $n \geq 6$

- A
- B
- C
- D

*

2 points

Which of the following is possible for the class equation of group G?

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- c) $8 = 1+1+3+3$
- d) $6 = 1+2+3$

- A
- B
- C
- D

*

2 points

The group integers under addition has

- a) Composition series
- b) Normal subgroup
- c) No composition series
- d) No identity element.

- A
- B
- C
- D

*

2 points

Any two composition series of a group are.....

- a) Isomorphic
- b) Isomorphic refinements
- c) Non- isomorphic
- d) Dose not have isomorphic refinements

A

B

C

D

*

2 points

Consider the statements

i) Every abelian group is nilpotent

ii) Every nilpotent group is solvable

- a) Only (i) true
- b) Only (ii) true
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- d) Both (i) and (ii) false

A

B

C

D

*

2 points

What is the highest order of element in group S_5 ?

- a) 5
- b) 6
- c) 7
- d) 8

A

B

C

D

*

2 points

If M is maximal normal subgroup of G iff $\frac{G}{M}$ is

- a) Normal
- b) Abelian
- c) Non-abelian
- d) Simple

A

B

C

D

*

2 points

Number of elements of order 2 in $S_3 \times Z_4$ is

- a) 6
- b) 7
- c) 8
- d) 9

- A
- B
- C
- D

*

2 points

The fundamental group of circles is.....

- a) Trivial
- b) Non-abelian
- c) Infinite cyclic
- d) Finite cyclic

- A
- B
- C
- D

*

2 points

Which of the following group is simple?

- a) D_3
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- c) S_3
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- A
- B
- C
- D

*

2 points

The number of abelian groups of order 15 up to isomorphism is.....

- a) 1
- b) 2
- c) 3
- d) 4

- A
- B
- C
- D

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Internal Exam

Sem -1 Sub - Algebra

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vp373337@gmail.com

Name *

Vikas Maruti Patil

Roll No *

1230

Class *

M.Sc I



Questions

All questions are compulsory.

*

2 points

If G is non abelian group for which $|G|=343$ and Z is center of G then

- a) $|Z|=3$
- b) $|Z|=1$
- c) $|Z|=7$
- d) $|Z|=49$

- A
- B
- C
- D

*

2 points

Number of generators of cyclic group of order 7^2 is

- a) 62
- b) 23
- c) 42
- d) 49

- A
- B
- C
- D

*

2 points

The identity element of the multiplicative group

$\left\{ \begin{pmatrix} a & a \\ a & a \end{pmatrix} \mid a \in \mathbb{R}, a \neq 0 \right\}$ is

a) $\begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}$

b) $\begin{pmatrix} 1 & 1 \\ 1 & 1 \end{pmatrix}$

c) $\begin{pmatrix} 1/2 & 1/2 \\ 1/2 & 1/2 \end{pmatrix}$

d) Not exists

A

B

C

D

*

2 points

Consider the statements

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- a) Only (i) true
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- A
- B
- C
- D

*

2 points

The group S_n is not solvable for

- a) $n \geq 3$
- b) $n \geq 4$
- c) $n \geq 5$
- d) $n \geq 6$

- A
- B
- C
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*

2 points

Which of the following is possible for the class equation of group G?

- a) $10 = 1+1+1+2+5$
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- A
- B
- C
- D

*

2 points

The group integers under addition has

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- b) Normal subgroup
- c) No composition series
- d) No identity element.

- A
- B
- C
- D

*

2 points

Any two composition series of a group are.....

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- c) Non- isomorphic
- d) Dose not have isomorphic refinements

A

B

C

D

*

2 points

Consider the statements

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- a) Only (i) true
- b) Only (ii) true
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A

B

C

D

*

2 points

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- c) 7
- d) 8

A

B

C

D

*

2 points

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- c) Non-abelian
- d) Simple

A

B

C

D

*

2 points

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- a) 6
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- c) 8
- d) 9

- A
- B
- C
- D

*

2 points

The fundamental group of circles is.....

- a) Trivial
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- A
- B
- C
- D

*

2 points

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A

B

C

D

*

2 points

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- c) 3
- d) 4

A

B

C

D

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Internal Exam

Sem -1 Sub - Algebra

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Email *

revatipishte456@gmail.com

Name *

Revati shridhar pishte

Roll No *

1231

Class *

M.Sc I



Questions

All questions are compulsory.

*

2 points

If G is non abelian group for which $|G|=343$ and Z is center of G then

- a) $|Z|=3$
- b) $|Z|=1$
- c) $|Z|=7$
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- A
- B
- C
- D

*

2 points

Number of generators of cyclic group of order 7^2 is

- a) 62
- b) 23
- c) 42
- d) 49

- A
- B
- C
- D

*

2 points

The identity element of the multiplicative group

$\left\{ \begin{pmatrix} a & a \\ a & a \end{pmatrix} \mid a \in \mathbb{R}, a \neq 0 \right\}$ is

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b) $\begin{pmatrix} 1 & 1 \\ 1 & 1 \end{pmatrix}$

c) $\begin{pmatrix} 1/2 & 1/2 \\ 1/2 & 1/2 \end{pmatrix}$

d) Not exists

A

B

C

D

*

2 points

Consider the statements

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- a) Only (i) true
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- A
- B
- C
- D

*

2 points

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- d) $n \geq 6$

- A
- B
- C
- D

*

2 points

Which of the following is possible for the class equation of group G?

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- c) $8 = 1+1+3+3$
- d) $6 = 1+2+3$

- A
- B
- C
- D

*

2 points

The group integers under addition has

- a) Composition series
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- A
- B
- C
- D

*

2 points

Any two composition series of a group are.....

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- b) Isomorphic refinements
- c) Non- isomorphic
- d) Dose not have isomorphic refinements

A

B

C

D

*

2 points

Consider the statements

i) Every abelian group is nilpotent

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- a) Only (i) true
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- c) Both (i) and (ii) true
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A

B

C

D

*

2 points

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- a) 5
- b) 6
- c) 7
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A

B

C

D

*

2 points

If M is maximal normal subgroup of G iff $\frac{G}{M}$ is

- a) Normal
- b) Abelian
- c) Non-abelian
- d) Simple

A

B

C

D

*

2 points

Number of elements of order 2 in $S_3 \times Z_4$ is

- a) 6
- b) 7
- c) 8
- d) 9

- A
- B
- C
- D

*

2 points

The fundamental group of circles is.....

- a) Trivial
- b) Non-abelian
- c) Infinite cyclic
- d) Finite cyclic

- A
- B
- C
- D

*

2 points

Which of the following group is simple?

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- c) S_3
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- A
- B
- C
- D

*

2 points

The number of abelian groups of order 15 up to isomorphism is.....

- a) 1
- b) 2
- c) 3
- d) 4

- A
- B
- C
- D

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Internal Exam

Sem -1 Sub - Algebra

The respondent's email (**sakshibhosale481999@gmail.com**) was recorded on submission of this form.

Email *

sakshibhosale481999@gmail.com

Name *

Sakshi Vijay bhosale

Roll No *

1203

Class *

M.Sc I



Questions

All questions are compulsory.

*

2 points

If G is non abelian group for which $|G|=343$ and Z is center of G then

- a) $|Z|=3$
- b) $|Z|=1$
- c) $|Z|=7$
- d) $|Z|=49$

- A
- B
- C
- D

*

2 points

Number of generators of cyclic group of order 7^2 is

- a) 62
- b) 23
- c) 42
- d) 49

- A
- B
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- D

*

2 points

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c) $\begin{pmatrix} 1/2 & 1/2 \\ 1/2 & 1/2 \end{pmatrix}$

d) Not exists

A

B

C

D

*

2 points

Consider the statements

i) Every abelian group is solvable

ii) The commutator subgroup K' of any normal subgroup K of a group G is normal subgroup of G

- a) Only (i) true
- b) Only (ii) true
- c) Both (i) and (ii) true
- d) Both (i) and (ii) false

- A
- B
- C
- D

*

2 points

The group S_n is not solvable for

- a) $n \geq 3$
- b) $n \geq 4$
- c) $n \geq 5$
- d) $n \geq 6$

- A
- B
- C
- D

*

2 points

Which of the following is possible for the class equation of group G?

- a) $10 = 1+1+1+2+5$
- b) $4 = 1+1+2$
- c) $8 = 1+1+3+3$
- d) $6 = 1+2+3$

A

B

C

D

*

2 points

The group integers under addition has

- a) Composition series
- b) Normal subgroup
- c) No composition series
- d) No identity element.

A

B

C

D

*

2 points

Any two composition series of a group are.....

- a) Isomorphic
- b) Isomorphic refinements
- c) Non- isomorphic
- d) Dose not have isomorphic refinements

A

B

C

D

*

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Consider the statements

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A

B

C

D

*

2 points

What is the highest order of element in group S_5 ?

- a) 5
- b) 6
- c) 7
- d) 8

A

B

C

D

*

2 points

If M is maximal normal subgroup of G iff $\frac{G}{M}$ is

- a) Normal
- b) Abelian
- c) Non-abelian
- d) Simple

A

B

C

D

*

2 points

Number of elements of order 2 in $S_3 \times Z_4$ is

- a) 6
- b) 7
- c) 8
- d) 9

- A
- B
- C
- D

*

2 points

The fundamental group of circles is.....

- a) Trivial
- b) Non-abelian
- c) Infinite cyclic
- d) Finite cyclic

- A
- B
- C
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*

2 points

Which of the following group is simple?

- a) D_3
- b) Icosahedral group
- c) S_3
- d) Cyclic group of order 15

- A
- B
- C
- D

*

2 points

The number of abelian groups of order 15 up to isomorphism is.....

- a) 1
- b) 2
- c) 3
- d) 4

- A
- B
- C
- D

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Internal Exam

Sem -1 Sub - Algebra

The respondent's email (**autadepragati52@gmail.com**) was recorded on submission of this form.

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Name *

Pragati prabhakar autade

Roll No *

1201

Class *

M.Sc I



Questions

All questions are compulsory.

*

2 points

If G is non abelian group for which $|G|=343$ and Z is center of G then

- a) $|Z|=3$
- b) $|Z|=1$
- c) $|Z|=7$
- d) $|Z|=49$

- A
- B
- C
- D

*

2 points

Number of generators of cyclic group of order 7^2 is

- a) 62
- b) 23
- c) 42
- d) 49

- A
- B
- C
- D

*

2 points

The identity element of the multiplicative group

$\left\{ \begin{pmatrix} a & a \\ a & a \end{pmatrix} \mid a \in \mathbb{R}, a \neq 0 \right\}$ is

a) $\begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}$

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A

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*

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- A
- B
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*

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*

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- C
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B

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*

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B

C

D

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A

B

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D

*

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*

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Sem -1 Sub - Algebra

The respondent's email (rajukamble1822@gmail.com) was recorded on submission of this form.

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Name *

Raju Vinod kamble

Roll No *

1214

Class *

M.Sc I



Questions

All questions are compulsory.

*

2 points

If G is non abelian group for which $|G|=343$ and Z is center of G then

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*

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Internal Exam

Sem -1 Sub - Algebra

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satheankita1087@gmail.com

Name *

Ankita Mahipati Sathe

Roll No *

1234

Class *

M.Sc I



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