

Shri Swami Vivekanand Shikshan Sanstha's,Vivekanand College Kolhapur (Autonomous),Department of Statistics.

Internal Examination BSc II (Sem IV) Statistics Paper No. IV

(Probability Distributions and Statistical Methods II)

Day and Date Thursday 22 July 2021 Time: 11.00 am to 12.00 Noon

Email *

rujutadhere29@gmail.com

Name of Student *

Dhere Rujuta Shivaji

Roll Number *

7541

PRN Number *

2019037399

Section I Probability Distributions II
(10 Marks)

If X follows Gamma (1,3) then mode of the distribution is..... *

1 point

- 0.5
- 2
- 1
- 3

The sum of n independent exponential variates is variate. *

1 point

- Exponential
- Gamma
- Beta
- Normal

If X follows $\beta_2(m, n)$ then $1/X$ is ----- *

1 point

- $\beta_2(m, n)$
- $\beta_1(m, n)$
- $\beta_2(n, m)$
- $\beta_1(n, m)$

If X follows $\beta_2(2,3)$ then $E(1/X)$ is ... *

1 point

- 3
- 2/5
- 1
- 3/5

If X follows $\beta_1(10,10)$ then value of median is... *

1 point

- 15/10
- 10/15
- 9/10
- 1/2

The mean of t-distribution with 4 d.f. is..... *

1 point

- 2
- 1/2
- 1
- None of these

The curve of t distribution is *

1 point

- symmetric and platykurtic
- symmetric and mesokurtic
- symmetric and leptokurtic
- None of these

If X follows Chi-square distribution with variance 6 then its mean is.... *

1 point

- 4
- 12
- 2
- 3

In Chi- square distribution..... *

1 point

- Mean < degree of freedom
- mean = degree of freedom
- Mean > degree of freedom
- Mean \leq degree of freedom

If X follows F (n1, n2) then E(X) is... *

1 point

- $n1/(n1-2)$
- $n2/(n1-2)$
- $n2/(n2-2)$
- $n1/(n1+n2)$

Section 2: Statistical Methods II

(10 Marks)

The probability of rejecting a null hypothesis is when it is false is called _____ *

1 point

- Type I error
- Type II error
- Power of test
- Level of significance

A null hypothesis is a _____ *

1 point

- Hypothesis which is simple
- Hypothesis with no difference
- Hypothesis of interest
- Hypothesis that assigns values zero to the parameters.

Testing $H_0 : \mu_1 = \mu_2$ against $H_1 : \mu_1 > \mu_2$ is a test. *

1 point

- one sided left tailed
- one sided right tailed
- two tailed
- None of these

If Z_{cal} and Z_{α} be the respectively calculated and critical values of test statistic based * 1 point
on large sample size then for right tailed null hypothesis H_0 is rejected if and only if ...

- $Z_{cal} > Z_{\alpha}$
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Fisher's Z – transformation is used to test equality of two population *

1 point

- a) Means
- Proportions
- b) Regression coefficients
- Correlation coefficients

Reliability of a system is always lies between *

1 point

- 0 and 1
- 1 and 1
- 0 and ∞
- $-\infty$ and ∞

Structure function can take values..... *

1 point

- Only 0
- Only 1
- 0 and 1
- 2

If $\emptyset(X)$ is binary coherent structure function of a system of n components then _____ *

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- $\emptyset(X) \geq \emptyset(Y)$ for all $X \geq Y$
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Which of the following is structure function of 2 out of 3 system _____ *

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A state vector X is called path vector if value of structure function is *

1 point

- 0
- 1
- 0 and 1
- Option 4

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Shri Swami Vivekanand Shikshan Sanstha's,Vivekanand College Kolhapur (Autonomous),Department of Statistics.

Internal Examination BSc II (Sem IV) Statistics Paper No. IV

(Probability Distributions and Statistical Methods II)

Day and Date Thursday 22 July 2021 Time: 11.00 am to 12.00 Noon

Email *

shraddhaj1820@gmail.com

Name of Student *

Shraddha dinkar jadhav

Roll Number *

7545

PRN Number *

2019037015

Section I Probability Distributions II
(10 Marks)

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Internal Examination BSc II (Sem IV) Statistics Paper No. IV

(Probability Distributions and Statistical Methods II)

Day and Date Thursday 22 July 2021 Time: 11.00 am to 12.00 Noon

Email *

swapnil2918@gmail.com

Name of Student *

DESHMUKH SWAPNIL VITTHAL

Roll Number *

7540

PRN Number *

2019037010

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(10 Marks)

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Internal Examination BSc II (Sem IV) Statistics Paper No. IV

(Probability Distributions and Statistical Methods II)

Day and Date Thursday 22 July 2021 Time: 11.00 am to 12.00 Noon

Email *

kedarkumathekar@gmail.com

Name of Student *

Kedar

Roll Number *

7557

PRN Number *

2019037035

Section I Probability Distributions II
(10 Marks)

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Internal Examination BSc II (Sem IV) Statistics Paper No. IV

(Probability Distributions and Statistical Methods II)

Day and Date Thursday 22 July 2021 Time: 11.00 am to 12.00 Noon

Email *

shwetakoshti05@gmail.com

Name of Student *

Shweta jitendra koshti

Roll Number *

7556

PRN Number *

2019037034

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(10 Marks)

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Internal Examination BSc III (Sem VI) Statistics Paper No. VIII

(Design of Experiment , Quality Management & Data Mining)

Day and Date Tuesday 20 July 2021 Time: 11.00 am to 12.00 Noon

Email *

rutujashinde2496@gmail.com

Name of Student *

Rutuja Sunil Shinde

Roll Number *

8184

PRN Number *

2018037779

Section I : Design Of Experiment
(10 Marks)

Comparison of different fertilizers in the design of experiment is..... *

1 point

- Absolute Experiment
- Comparative Experiment
- Both A and B
- None of these

The smallest division of experimental material is called as *

1 point

- Field
- Experimental Unit
- Treatment
- Block

The principle of controlling heterogeneity in design of experiment is.... *

1 point

- Replication
- Randomization
- Local Control
- None of these

In the situation where an appreciable fraction of units is likely to be destroyed or fail to respond design is recommended. * 1 point

- LSD
- CRD
- RBD
- None of these

When there occurs a missing value in an experiment calculation of exact treatment sum of square is to be carried out when * 1 point

- Treatments are not significant
- Blocks are significant
- Treatments are significant
- None of these

The degrees of freedom for error sum of squares in RBD with 4 treatments and 5 blocks is..... * 1 point

- 15
- 12
- 14
- 16

In LSD, no. of rows is equal to *

1 point

- Number of columns
- Number of treatments
- Both A and B
- None of these

The principle of local control is used in *

1 point

- CRD and RBD
- CRD
- RBD
- CRD and LSD

In 2^2 factorial experiment with 4 blocks the d.f. for error are..... *

1 point

- 16
- 12
- 9
- None of these

When interaction effect is confounded in one replicate and not in other then the experiment is saidconfounding.

* 1 point

- Total
- Partial
- Complete
- Fractional

Section II : Quality Management & Data Mining

(10 Marks)

Quality is defined as to do the intended job. *

1 point

- conformance
- fitness
- required standards
- All the above

Which of the following is not a seven SPC tool? *

1 point

- Histogram
- check sheet
- Design of experiment
- Pareto chart

Cause and Effect diagram is also known as *

1 point

- Ishikawa diagram
- Fish-bone diagram
- Fisher's diagram
- Both A and B

Who among the following conceived the PDCA Cycle? *

1 point

- W. E. Deming
- W. A. Shewhart
- Both A and B
- None of these

Which of the followings are dimension of quality of product? *

1 point

- Reliability
- Durability
- serviceability
- All the above

Which of the following chart is not memory chart? *

1 point

- Cusum
- Shewhart
- EWMA
- Moving average

Which of the following tools is used in 'analysis and improve' step of DMAIC cycle? *

1 point

- Histogram
- cause and effect diagram
- scatter diagram
- Pareto diagram

Which of the following chart uses weights in its construction? *

1 point

- Cusum
- EWMA
- Pareto
- Moving average

The concept of is to reduce the defects to 3.4 ppm. *

1 point

- Cusum
- 6 sigma
- EWMA
- Moving average

..... variability is unavoidable. *

1 point

- Chance Causes
- Assignable causes
- Both A and b
- Neither A nor B

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Email *

pratiksharpawar812@gmail.com

Name of Student *

PRATIKSHA RAMESH PAWAR

Roll Number *

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2018037765

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- 15
- 12
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In LSD, no. of rows is equal to *

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- Number of treatments
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The principle of local control is used in *

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- CRD
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- Total
- Partial
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Section II : Quality Management & Data Mining

(10 Marks)

Quality is defined as to do the intended job. *

1 point

- conformance
- fitness
- required standards
- All the above

Which of the following is not a seven SPC tool? *

1 point

- Histogram
- check sheet
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Shri Swami Vivekanand Shikshan Sanstha's,Vivekanand College Kolhapur (Autonomous),Department of Statistics.

Internal Examination BSc III (Sem VI) Statistics Paper No. VIII

(Design of Experiment , Quality Management & Data Mining)

Day and Date Tuesday 20 July 2021 Time: 11.00 am to 12.00 Noon

Email *

bhagyashriramsing09@gmail.com

Name of Student *

Bhagyashri Shamrao Ramsing

Roll Number *

8179

PRN Number *

2018037771

Section I : Design Of Experiment
(10 Marks)

Comparison of different fertilizers in the design of experiment is..... *

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Internal Examination BSc III (Sem VI) Statistics Paper No. VIII

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Day and Date Tuesday 20 July 2021 Time: 11.00 am to 12.00 Noon

Email *

prajaktasankpal362@gmail.com

Name of Student *

Prajakta Bajirao Sankpal

Roll Number *

8181

PRN Number *

2018037775

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Day and Date Tuesday 20 July 2021 Time: 11.00 am to 12.00 Noon

Email *

kishorkashidkar8202@gmail.com

Name of Student *

Kishor Balaso Kashidkar

Roll Number *

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