

Printing Pages :2

Paper Code: BSA-307

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(SVSU:2024-25/C)

Enrollment No.														
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B.Sc.(Ag.)

IInd YEAR EXAMINATION

Sub. Name – Statistics

Sub. Code - BSA 307

[Time : 3:00 Hours]

[Max. Marks : 70]

I. Objectives: Answer All Question [15×1= 15]

- Which of the following is a positional average?
(a) Mean (b) Median (c) Mode (d) None
- If mean, median and mode are not equal then distribution is called
(a) asymmetrical distribution (b) symmetrical distribution
(c) Binomial distribution (d) None of these
- variance is always measured from
(a) Mean (b) Median (c) Mode (d) None of these
- Diagrams and graphs are tool of
a) Collection of data (b) Analysis of data
(c) Presentation of data (d) association of data
- Mode is a measure of
(a) Location (b) dispersion (c) Skewness (d) None of these
- Data collected already and used by an investigator is known as
(a) primary data (b) secondary data
(c) single Data (d) None of these
- Which of the following is middle value of data?
(a) Mean (b) Median (c) Mode (d) None
- F test is a test of analysis of
(a) proportions (b) variances (c) means (d) All of these
- Degrees of freedom is given by
(a) n (b) n-1 (c) n-2 (d) n²
- Root mean square deviation is
(a) Q.D. (b) S.D. (c) M.D. (d) None of these
- In testing the variables follows
(a) poison distribution (b) normal distribution
(c) beta distribution (d) None of these
- t test is a test of analysis of
(a) proportions (b) variances (c) means (d) All of these
- The most frequently occurring value is called
(a) Mean (b) mode (c) M.D. (d) None of these

14. Degrees of freedom is related to
 (a) No. of Independent observations
 (b) variances (c) means (d) none
15. Chi square Statistic is denoted as
 (a) χ (b) ϵ (c) Ω (d) χ^2

II Long Question : Answer Any Three [10×3=30]

1. Draw a Scatter Diagram and discuss its uses in Correlation.
2. What do you understand by Graphical Presentation?

Draw a Frequency curve of the following data –

x :	5-10	10-15	15-20	20-25	25-30	30-35
f:	7	10	14	8	12	14

3. Discuss Large Sample Testing procedure and their methods of testing.
4. What do you understand by Sampling? Explain its various methods.
5. Explain measures of Central Tendency and explain its properties.

III. Short Question: Answer any five [5×5=25]

1. Write a note on ANOVA?
2. Discuss testing of hypothesis.
3. What do you understand by Mode of a data and show it graphically.
4. A die is thrown 90 times and the no. of faces shown are:

Faces	1	2	3	4	5	6
Frequency	18	14	13	15	14	16

Test Whether the die is fair.

(Given tabulated $\chi^2_{0.05} = 11.07$)

5. Discuss variance and write its formulae.
6. Write a note on Cumulative Frequency distributions.
7. Discuss Scope of Statistics in Agriculture.
8. Describe Simple Random Sampling with and without replacement.