

**First Semester FYUGP Degree (Reg) Examination November
2025**

KU1DSCSTA122 - STATISTICAL METHODS

2024 Admission onwards

Time : 2 hours

Maximum Marks : 70

Section A

Answer any 6 questions. Each carry 3 marks.

1. What is a sample in statistics?
2. Define qualitative data with an example.
3. What is geometric mean, and when is it used?
4. The number 9 is added to every number of a particular distribution. Explain how this will affect the arithmetic mean.
5. If the arithmetic mean of two values is 9 and their geometric mean is 6, then what is their harmonic mean?
6. What do you understand by dispersion of a set of values?
7. Define range.
8. Describe a measure of skewness.

Section B

Answer any 4 questions. Each carry 6 marks.

9. What are the different measures of central tendency? Explain the key differences between the arithmetic mean, median, and mode
10. What are requisites of a good measure of central tendency?
11. Define the harmonic mean of a set of data. Discuss the advantages and disadvantages of using the harmonic mean as a measure of central tendency.
12. Find the variance of the first n natural numbers.
13. Define kurtosis and its various measures. Also explain its significance in statistical analysis.
14. Explain skewness. Define Karl Pearson's measure of skewness?

Section C

Answer any 2 questions. Each carry 14 marks.

15. Explain graphical and diagrammatic representation of data. Explain the different types of graphs and diagrams
16. Explain the construction of histograms and ogives.
17. Define census and sampling. Compare the advantages and disadvantages of census method and sample survey method in data collection.

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