First Semester FYUGP Degree (Reg/Sup) 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 do you understand by dispersion of a set of values?

2. What is the formula for standard deviation?

3. Explain the concept of mode.

4. The number 9 is added to every number of a particular distribution. Explain how this will affect the arithmatic mean.

5. The AM and GM of two observations are 25 and 15. Identify the observations.

6. Define population and sample.

7. Define primary data with an example.

8. What is meant by tabular presentation of data. Why it is important

Section B

Answer any 4 questions. Each carry 6 marks.

9. Explain the difference between arithmetic mean, geometric mean, and harmonic mean.

10. What are requisites of a good measure of central tendency?

11. Define arithmetic mean of a set of data. Discuss the advantages and disadvantages of using the arithmetic mean as a measure of central tendency.

12. Explain the sources of secondary data.

13. Define discrete and continuous frequency distributions. Explain the formation of each from raw data.

14. Explain the cumulative frequency distributions.

Section C

Answer any 2 questions. Each carry 14 marks.

15. Explain the construction of histograms and ogives.

16. Explain graphical and diagrammatic representation of data. Explain the different types of graphs and diagrams

17. A class of students scored the following marks: 45, 56, 58, 60, 65, 72, 75, 80, 85, 90. Calculate the range, mean deviation, quartile deviation, and standard deviation. Analyze what these values tell about the dataset.