

First Semester FYUGP Degree Supplementary Examination**January 2025****KU1DSCSTA101 - BASIC STATISTICS**

2024 Admission onwards

Time : 2 hours

Maximum Marks : 70

Section A**Answer any 6 questions. Each carry 3 marks.**

1. Explain the difference between discrete and continuous frequency distribution.
2. What is an ogive? Explain two types of ogives.
3. Construct a Pie chart for the following data on monthly expenditure of a family (in percentage)

Rent	Food	Utilities	Education	Others
40	30	15	10	5

4. Express harmonic mean in terms of geometric mean and arithmetic mean.
5. What is a decile? Explain the relationship between median and a decile?
6. Give the formula for finding the deciles of a continuous distribution.
7. Name different measures of dispersion.
8. Define range.

Section B**Answer any 4 questions. Each carry 6 marks.**

9. Create a frequency distribution table, less than and greater than cumulative frequency tables for the following data.

10, 20, 20, 30, 30, 30, 30, 40, 40, 50, 50, 50, 60, 60, 70

10. Explain in detail classification and tabulation of data with the objectives.
11. Explain a bar diagram and different types of bar diagrams using examples.
12. The mean weight of 25 boys is 78.4. Later it was found that the weight of one boy was misread as 60 instead of the correct value 96. Calculate the corrected average.

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13. What are the merits and demerits of mode?

14. Explain how will you calculate mean in short cut method for a Continuous data

Section C**Answer any 2 questions. Each carry 14 marks.**

15. Examine the scope and limitations of statistics across different fields.
16. Examine the importance and nature of statistics across various disciplines.
17. (a) Find standard deviation for the following data

Class	0-2	2-4	4-6	6-8	8-10	10-12
Frequency	2	4	6	4	2	6

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- (b) Find the missing information from the following

	Group 1	Group 2	Group 3	Combined
Number	50	—	90	200
Standard deviation	6	7	—	7.746
Mean	113	—	115	116

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