K25FY4250 Pages: 2 Reg No:.....
Name:.....

# First Semester FYUGP Degree (Reg/Sup) Examination
# November 2025
# KU1DSCSTA101/ - BASIC STATISTICS

2024 Admission onwards

Time : 2 hours Maximum Marks : 70

## Section A

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

1. Define the word Statistics
2. Briefly describe geographical and chronological data.
3. Explain what is meant by tabular presentation of data. Why it is important?
4. Explain the difference between a simple and multiple bar diagram.
5. Draw a bar chart for number of students enrolled in various subjects.

| Mathematics | Science | English | History | Arts |
|---|---|---|---|---|
| 50 | 40 | 30 | 20 | 15 |

6. Define quartile deviation (Q.D.) and give its important features.
7. Name different measures of dispersion.
8. Identify the measure of dispersion that is based on the mean deviation.

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## Section B

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

9. Explain in detail classification and tabulation of data with the objectives.
10. Explain in detail primary and secondary data with methods of collecting it.
11. Explain a bar diagram and different types of bar diagrams using examples.
12. Mention merits and demerits of range.
13. Prove that for any discrete distribution, standard deviation is not less than mean deviation from mean.
14. What is the difference between absolute and relative dispersion?.

## Section C

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

15. Explain 5 measures of central tendency.

16. Calculate the arithmetic mean of marks from the following table by shortcut method

| Marks | 0-10 | 10-20 | 20-30 | 30-40 | 40-50 | 50-60 |
|---|---|---|---|---|---|---|
| no. of students | 12 | 18 | 27 | 20 | 17 | 6 |

17. Explain quantitative and qualitative data with examples. In what situations might quantitative data be more beneficial than qualitative data?

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