Reg No:..... K24FY1350
Name :.....

First Semester FYUGP Statistics Examination
November 2024 (2024 Admission onwards)
KU1DSCSTA101 (BASIC STATISTICS)
(DATE OF EXAM: 2-12-2024)

Time : 120 min Maximum Marks : 70

Part A (Answer any 6 questions. Each carries 3 marks)

1. What are the different types of data? 3
2. What is ordinal data? Explain with an example. 3
3. Define interval scale of measurement and give an example. 3
4. Why classification of data is important in statistics? 3
5. What are the sources of secondary data? 3
6. Define geometric mean. Write any two merits of the same. 3
7. Compute the mode of $2, 3, 5, 7, 4, 6, 3, 3, 2, 6, 7, 3, 6, 5, 4, 4, 4$ 3
8. What do you mean by quantiles? 3

Part B (Answer any 4 questions. Each carries 6 marks)

9. Provide a detailed explanation geographical data with real life example. 6
10. Discuss the significance of using the correct scale of measurement when analyzing data. 6
11. Explain measurement scales with examples. 6
12. How can one locate mode graphically in the case of a grouped data? 6
13. Explain how shifting of origin and change of scale affect the mean. 6
14. Explain how will you calculate mean in short cut method for a Continuous data 6

Part C (Answer any 2 question(s). Each carries 14 marks)

15. (a) Find the missing information from the following 7

	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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(b) 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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16. Find quartile deviation for the following data

Class	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100
Frequency	20	90	100	190	70	50	50	45	15

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17. (a) Explain graphical and diagrammatic representation of data. Explain the different types of graphs and diagrams.

(b) A retail store records the following number of customer visits over the past week.

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
150	180	130	200	220	250	170

Draw a bar chart to show the customer visits per day. Also explain the advantages of using a bar chart to represent this data.

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