

B A, B SC, B COM DEGREE END SEMESTER EXAMINATION - APRIL 2026
UGP (HONS.) SEMESTER - 2: MULTIDISCIPLINARY COURSE
COURSE: 24USTAMDC101– INTRODUCTION TO ELEMENTARY STATISTICS

(For Regular 2025 and Improvement/Supplementary 2024 Admission)

Time: 1.5 Hours

Max. Marks - 50

(Use of ordinary calculator is permitted)

PART A

(Maximum marks from this part is 10. Each question carries 2 marks)

1. Define Statistics in the plural sense. (CO 1 U)
2. Distinguish between primary and secondary data. (CO 2 U)
3. What do you understand by qualitative data? Give an example of qualitative data. (CO 3 U)
4. What is weighted arithmetic mean? (CO 5 R)
5. Calculate range of the following values; 45, 22, 67, 50, 22, 42, 72, 65, 22, 19, 49. (CO 5 A)
6. Define mean deviation. (CO 5 U)
7. What is meant by a scatter diagram? (CO 6 R)
8. Distinguish between positive and negative correlation. (CO 6 U)

PART B

(Maximum marks from this part is 20. Each question carries 5 marks)

9. Briefly explain the applications of Statistics in various fields. (CO 2 U)
10. Explain the importance of sampling and compare it with census study. (CO 3 U)
11. Calculate the mean deviation from the mode for the following data (CO 5 E)
18, 30, 21, 28, 25, 22, 26, 19, 32, 28
12. The following data gives the monthly expenditure in thousands of various items incurred by 3 families. Represent the data using a suitable diagram. (CO 4 A)

	Family 1	Family 2	Family 3
Food	7	6	8
Clothing	4	5	8
Rent	15	21	10

13. Calculate the median of Monthly rent from the following frequency distribution.

Monthly rent (in 1000 Rs.)	20-40	40-60	60-80	80-100	100-120	120-140
Number of workers	6	9	11	14	5	7

(CO 5 E)

14. Describe the concept of correlation analysis. What are the different types of correlation?

(CO 6 U)

PART C

(Maximum marks from this part is 20. Each question carries 10 marks)

15. Explain the importance of diagrammatic representation of data. Describe the important statistical diagrams in common use.

(CO 4 U)

16. Determine mean, median and mode of the following series.

(CO 5 E)

x	5	12	19	20	25	26	30	34
f	0	5	10	20	15	8	10	18

17. Prices of a particular commodity in five months at two regions are as follows. Compare consistencies of prices of the two regions.

(CO 5 A)

Region A	4	8	4	15	10	11	9
Region B	12	8	3	15	6	4	10

18. The data below gives the weight and blood pressure of 10 persons. Apply correlation analysis to examine if there is any relation between weight and blood pressure. If so, comment on the relationship between them

(CO 6 An)

Person	A	B	C	D	E
Weight	150	169	175	180	200
Blood Pressure	125	130	160	169	150