

School of Liberal Education

Department of Humanities
Mid Term Examination

Exam Date: 29 Sep 2023
Time : 90 Minutes
Marks : 50

Sem V - K1UB503T - Elementary Statistics

*Your answer should be specific to the question asked
Draw neat labeled diagrams wherever necessary*

- 1) If the observations 9, 15, 20 and 26 occurs with frequencies 6,5,3, and 2 respectively, Calculate harmonic mean. K2 (2)
- 2) Define arithmetic and geometric mean. K1 (3)
- 3) The mean weight of 150 students is 60 kgs. The mean weights of boys and girls are 70 kgs. and 55 kgs respectively , and the standard deviations are 10 kgs. and 15 kgs. respectively. Find the number of boys and the combined standard deviation. K2 (4)
- 4) What do you mean by classification? Discuss various methods with suitable examples. K2 (6)
- 5) Differentiate the uses of Arithmetic Mean, Median and Mode. K3 (6)
- 6) Prepare histogram and frequency polygon from the following table: K3 (9)

Class Interval	0-10	10-20	20-30	30-40	40-50
Frequency	5	9	16	14	6

- 7) Illustrate types of measurement scale with suitable real life example. K4 (8)
- 8) Calculate Bowley's co-efficient of skewness from the following data: K4 (12)

Wages	0-10	10-20	20-30	30-40	40-50
frequency	22	38	46	35	20

OR

Calculate the Q1 and Q3 from the given data;

Daily Income in Rupees (RS.)	No. of Workers
100-120	12
120-140	14
140-160	8
160-180	6
180-200	10
Total	50

K4 (12)