

ADMISSION NUMBER											

School of Liberal Education
Bachelor of Arts Honours in Economics
Mid Term Examination - Nov 2023

Duration : 90 Minutes
Max Marks : 50

Sem I - K1UB101C - Basic Statistics

General Instructions
Answer to the specific question asked
Draw neat, labelled diagrams wherever necessary
Approved data hand books are allowed subject to verification by the Invigilator

- 1) Interpret the major differences between ratio and scale data. K2 (2)
- 2) What is purpose of questionnaire in research? K1 (3)
- 3) Show what are the key steps involved in classification? K2 (4)
- 4) The following table represents marks obtained by 12 students in mathematics and physics respectively. Calculate in which subject is the level of achievement higher? K2 (6)

Marks Maths	53 54 32 30 60 45 28 25 48 72 33 65
Marks Physics	55 41 48 49 27 24 23 20 28 60 43 67
- 5) The arithmetic mean and standard deviation of series of 20 items were calculated by a student as 20 cm. and 5 cm. respectively. However, while calculating them an item 13 was misread as 30. Find the correct arithmetic mean and standard deviation. K3 (6)
- 6) Calculate Average deviation of the following scores: K3 (9)

Class Interval	Frequency
40-44	3
35-39	4
30-34	6
25-29	12
20-24	7
15-19	5
10-14	1
N = 38	
Class Interval	Frequency
50-59	6
40-49	3
30-39	5
20-29	8
10-9	4
0-9	2
N=28	
- 7) Analyze how does a histogram visually represent a frequency distribution, and what are its key characteristics? K4 (8)
- 8) Examine the characteristics of statistical data which contributes in research. K4 (12)

OR

Compare the use of arithmetic mean, median and mode. K4 (12)