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

Duration : 90 Minutes
Max Marks : 50

Sem III - K1UA305C - Statistics in Psychological Research

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) Explain is a frequency distribution in psychology. — K2 (2)

2) What is the purpose of inferential statistics in psychology? — K1 (3)

3) discuss how a frequency distribution used to summarize and organize data. — K2 (4)

4) Discuss some key components of a frequency distribution, such as scores, frequencies, and intervals? — K2 (6)

5) Describe variability and its importance in psychology? — K3 (6)

6) Describe how is AD and SD calculated with an example and what does it represent in a distribution of scores? — K3 (9)

7) Consider the following grouped frequency distribution for a set of exam scores: — K4 (8)
Class Interval Frequency
60-70 8
70-80 12
80-90 15
90-100 5
Calculate the standard deviation for the exam scores.

8) In a study on the number of hours of sleep obtained by college students, a researcher collected data from 100 participants. The recorded hours of sleep were as follows: 6, 7, 6, 8, 7, 6, 7, 8, 5, 6, 7, 8, 7, 6, 6, 5, 7, 8, 7, 6, 7, 5, 6, 7, 8, 6, 7, 8, 7, 6, 5, 6, 7, 6, 8, 7, 6, 7, 8, 6, 7, 5, 6, 7, 8, 7, 6, 7, 5, 6, 7, 8, 7, 6, 7, 8, 6, 7, 8, 7, 6, 5, 6, 7, 8, 7, 6, 7, 8, 6, 7, 5, 6, 7, 8, 7, 6, 7, 8, 6, 7, 8, 7, 6, 5, 6, 7, 8, 7, 6, 7, 8, 6, 7, 5, 6, 7, 8, 7, 6, 7, 8, 6, 7, 8, 7, 6, 5. Create a frequency distribution table with class intervals of 5-6, 6-7, 7-8, and 8-9, and calculate the frequency for each class interval. — K4 (12)

OR

In a study on exam scores, the recorded scores were as follows: 85, 90, 75, 80, 85, 90, 95, 80, 75. Calculate the mean, median, and mode of the exam scores. — K4 (12)