K2 (2)



memory performance.

## School of Liberal Education

Master of Arts in Applied Psychology Mid Term Examination - May 2024

**Duration: 90 Minutes** Max Marks: 50

## Sem II - K1PM201T - Statistical Techniques in Psychology

## 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)	Discuss p-values and significance levels, and how are they used to determine the statistical significance of findings?	K2 (2)
2)	List the steps of calculating SD.	K1 (3)
3)	Calculate the standard deviation for the following set of scores: 18, 15, 12, 16, 20, 14, 17, 19, 16, 15.	K2 (4)
4)	Explain Positive, Negative and Zero Correlation?	K2 (6)
5)	Calculate the mean, median, and mode of the following set of scores: 18, 20, 15, 16, 21, 18, 16, 15, 20, 22, 15.	K3 (6)
6)	In a study on self-esteem, the recorded scores were as follows: 30, 35, 32, 28, 31, 33, 29. Calculate the average deviations and standard deviation for the self-esteem scores.	K3 (9)
7)	In a study on reaction times, the following scores were obtained: 220, 245, 250, 260, 270, 290, 310. Calculate the average deviation from the mean for the reaction times.	K4 (8)
8)	Consider the following grouped frequency distribution for a set of heights (in centimeters): Class Interval Frequency 150-160 12 160-170 18 170-180 20 180-190 15 Calculate the standard deviation for the heights	K4 (12)
	Calculate the standard deviation for the heights.	

OR

K4 (12) A researcher wants to examine the relationship between age and memory performance in a sample of 25 participants. The age of the participants and corresponding memory performance scores are as follows: Age: 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105, 110, 115, 120, 125, 130, 135, 140, 145 Memory Performance: 75, 80, 90, 85, 70, 60, 65, 55, 75, 80, 90, 85, 70, 60, 65, 55, 75, 80, 90, 85, 70, 60, 65, 55, 75 Calculate the Pearson's correlation coefficient between age and