

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2024
(Third Semester)

Branch – APPLIED PSYCHOLOGY

PSYCHOMETRIC METHODS & STATISTICS

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(10 × 1 = 10)

Question No.	Question	K Level	CO
1	Which of the following senses does absolute threshold not pertain to? a) Emotion b) Hearing c) Touch d) Vision	K1	CO1
2	Which is correct from below - it is harder to tell the difference between two stimuli at higher levels of intensity than at lower levels of intensity? a) The gate-control rule b) Weber's law c) The trichromatic phenomenon d) Place theory	K2	
3	Failing to reject the null hypothesis when it is false is called as? a) alpha b) Type I error c) beta d) Type II error	K1	CO2
4	What is a parameter? a) a sample characteristic b) a population characteristic c) unknown d) normally distributed	K2	
5	Which order of sampling schemes from best to worst? a) simple random, stratified, convenience b) simple random, convenience, stratified c) stratified, simple random, convenience d) stratified, convenience, simple random	K1	CO3
6	What are the variables whose calculation is done according to the weight, height, and length known as? a) Flowchart variables b) Discrete variables c) Continuous variables d) Measuring variables	K2	
7	What is the one use of a regression line? a) to determine if any x-values are outliers b) to determine if any y-values are outliers c) to determine if a change in x causes a change in y d) to estimate the change in y for a one-unit change in x	K1	CO4
8	Which of the following is not a measure of central tendency? a) Standard deviation b) Mean c) Median d) Mode	K2	
9	What type of test is an achievement test? a) Standard test b) Psychological test c) Teacher-made tests d) Intelligence test	K1	CO5
10	After preparing a test, if a teacher repeatedly administers it on the children of the same group in order to find out the consistency of test scores, he is looking for what in the test? a) Objectivity b) Unity c) Reliability d) Validity	K2	

Cont...

SECTION - B (35 Marks)

Answer **ALL** questions
ALL questions carry **EQUAL** Marks

(5 × 7 = 35)

Question No.	Question	K Level	CO
11.a.	Illustrate the properties of Psychometry.	K2	CO1
	(OR)		
11.b.	Explain in brief the thresholds.		
12.a.	Examine the nature of psychological research.	K4	CO2
	(OR)		
12.b.	Distinguish metric & non-metric data.		
13.a.	Discuss the measures of central tendency.	K6	CO3
	(OR)		
13.b.	Elaborate on normal distribution of the data.		
14.a.	Distinguish Type 1 & 2 errors.	K4	CO4
	(OR)		
14.b.	List the steps involved in MRA.		
15.a.	Explain the steps in item analysis.	K5	CO5
	(OR)		
15.b.	Compare the T-Score, Stanine Score, C-Score.		

SECTION - C (30 Marks)

Answer **ANY THREE** questions
ALL questions carry **EQUAL** Marks

(3 × 10 = 30)

Question No.	Question	K Level	CO
16	Illustrate rating scales.	K2	CO1
17	Discuss the nature of psychological data.	K6	CO2
18	Distinguish Skewness & Kurtosis.	K4	CO3
19	Explain non-parametric statistics.	K5	CO4
20	Analyze principles of test construction.	K4	CO5

Z-Z-Z

END