PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2023

(Third Semester)

Branch - APPLIED PSYCHOLOGY

PYSCHOMETRIC METHODS & STATISTICS

		PYSCHOWETRIC	VICI	HODS & STATIST	103	
Time: Three Hours					Maximum: 50 Marks	
SECTION-A (5 Marks) Answer ALL questions ALL questions carry EQUAL marks $(5 \times 1 = 5)$						
1	(i)	e difference between the indica gross error) absolute error	ated v		f a quantity is	
2	(i)	nat is the first step of research? selecting a problem) searching a problem	(ii)	finding a problem identifying a problem	n	
3	(i) (ii) (iii	What is null hypothesis? (i) subjective in nature (ii) when there is difference between variables (iii) the same as research hypothesis (iv) when there is no difference between variables				
4	rel (i)	Which of the following statistical tests is used to determine the significance of relationship between two variables? (i) t-test (ii) ANOVA (iii) correlation coefficient (iv) chi square				
5	stin (i)	hich law of psychology deals v muli? Getsalt Law i) Binet –Simon Law	(ii)	watson Law Weber-Fechner Law		
SECTION - B (15 Marks)						
Answer ALL Questions ALL Questions Carry EQUAL Marks (5 x 3 = 15)						
6		Explain thresholds.				
	b	State rating scales.				
7	a	Explain the nature of psychologory OR	ogica	l research.		
	b	State types of variables.				
8	a	Illustrate degrees of freedom. OR				
	b	Compare and contrast Skewn	ess ai	nd Kurtosis.		
9	a	Illustrate type 1 and 2 errors. OR				
	b	Explain the importance of fac	ctoria	l design.		
10	a	Illustrate the process of item	analy	sis.		

Illustrate percentile scores.

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SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a Differentiate Weber's and Fechner's laws.

OR

- b Analyse the properties of Psychometry.
- 12 a Differentiate metric and non-metric data types.

OR

- b Classify types of research.
- 13 a Illustrate measures of central tendency.

OR

- b Formulate measures of variability.
- 14 a Evaluate the types of hypotheses.

OR

- b Elucidate in brief non-parametric tests.
- 15 a Evaluate the principles of test construction.

OR

b Define reliability and interpret the types of reliability.

Z-Z-Z

END