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Brainware University
398, Ramkrishnapur Road, Barasat Kolkata, West Bengal-700125

## **BRAINWARE UNIVERSITY**

## **Term End Examination 2024-2025** Programme - M.Sc.(APSY)-2022/M.Sc.(APSY)-2023/M.Sc.(APSY)-2024 Course Name - Psychometry and Statistics in Applied Psychology **Course Code - APSY202** (Semester II)

	Marks: 60 he figure in the margin indicates full marks. Cand words as far		ime : 2:30 Hours ers in their own		
	Gr	oup-A			
		ce Type Question)	1 x 15=15		
1.	Choose the correct alternative from the following				
(i)	Heterogeneity of tests estimate the degree to	which a test measures			
	a) Different factors	b) Reliability			
	c) Validity	d) Different items			
(ii)	Select the correct option- Quantitative data ca	n be expressed through			
	a) Numbers	b) Percentage			
	c) Rates	d) All of these			
(iii)	Select the correct option- human experiences	are studied through			
	a) Ethnographic study	b) Phenomenological study			
	c) Case studies	d) All of these			
(iv)	Select which of following is not a limitation of	the qualitative research?			
	a) The approach is inflexible as well as rigid	b) Lack of transparency			
	c) Difficult of replicate	d) Subjective and impressionistic.			
(v) Select the correct option- ethnographic studies do not include					
	a) Value neutrality	b) Fields notes			
	c) Participants observation	d) Object analysis			
(vi)	Select the correct option- case studies explore				
	a) Single entity	b) Phenomenon			
	c) Only single entity is correct	d) Single entity and phenomenon a			
(vii)	Select the correct option- Internal consistency	concerns whether the various items or	na 🦠 😘 -		
	test measures the same thing?				

a) True

b) False

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/v:::)	c) Cannot say Identify the psychologist who introduced the cond	d) Sometimes true and sometimes false				
(VIII)		b) Wechsler				
	a) Terman c) Cattell	d) Wundt				
(ix)	Select the key reason why measurement is essent					
	<ul> <li>a) To confuse study participants</li> <li>c) To introduce bias in data collection</li> <li>Select the correct statement regarding the levels</li> </ul>	<ul><li>b) To ensure consistency and reliability</li><li>d) To discourage accurate data representation</li></ul>				
	a) Ordinal is the highest level of measurement.	<ul> <li>b) Interval measurement has an arbitrary zero point.</li> </ul>				
	c) Nominal data involves meaningful numerical values.	d) Ratio measurement lacks a true zero point.				
(xi)	Identify the level of measurement that has a true the measured attribute.	zero point representing the absence of				
	a) Nominal	b) Ordinal				
	c) Interval	d) Ratio				
(xii)	Classify the psychological principle that describes					
` '	the intensity of a stimulus and the magnitude of s	sensation.				
	a) Weber's Law	b) Fechner's Law				
	c) Steven's Law	d) Freud's Law				
(xiii	Identify the type of testing that compares an individuals performance to a predetermined Criteria or level of performance.					
	a) Criterion-referenced testing	b) Norm-referenced testing				
	c) Standardized testing	d) Experimental testing				
(xiv	ividuals performance in relation to the					
	a) Norm-referenced testing	b) Criterion-referenced testing				
	c) Absolute testing	d) Reliability testing				
(xv	<ol> <li>Identify the phenomenon where a stimulus is belowed to consciously perceived.</li> </ol>	ow the absolute threshold and cannot be				
	a) Differential threshold	b) Subliminal perception				
	c) Sensory adaptation	d) Perceptual set				
		_7				
	Group					
	(Short Answer Ty	pe Questions)	!			
	1. t. of Make and a love		(3)			
	plain the Weber's law stinguish between speed test and power test.		(3)			
3. DI	rite the names of different types of validity and clas		(3)			
	escribe criterion related validity.	· ·	(3)			
- 1			(3)			
A cc (n	researcher was interested in studying the relationship be ollected data regarding these and treated them as the two neasured by interest inventory). The correlations among the	main variables and added a third variable, "interest" hese variables were $r_{12}$ = 0.41, $r_{13}$ = 0.50, $r_{23}$ = 0.16. This	<b>\</b> = <b>/</b>			
da	ata enabled him to compute the multiple correlation coeffi access in the job and the combined effect of the two indep	pendent variables- "training" and "interest". Solve and				

find the value of the correlation coefficient in his study.

#### OR

 $X_1$  represents score on achievement test (dependent variable) and  $X_2$  and  $X_3$  indicates scores on intelligence and (3) study hours (independent variable). The other related values needed are: SD of score  $X_1$ = 13.65  $r_{12}$ = 0.41

 $r_{t3} = 0.50$ 

 $B_{12.3} = 0.338$ 

B<sub>13.2</sub>= 0.446

Solve to find the estimated X<sub>1</sub>.

### Group-C

(Long Answer Type Questions)

5 x 6=30

8. 9.	Differentiate Explain open, The opinions o	, axial, and sele	ative and quan ctive coding. ersons and 100 n			g research data. an attitude scale. The data	(5) (5) (5) (5)
		Agree	Disagree	No opinion	Total		
	Unmarried	14	66	10	90		

 Agree
 Disagree
 No opinion
 Total

 Unmarried
 14
 66
 10
 90

 Married
 27
 66
 7
 100

 Total
 41
 132
 17
 190

Solve to see that the data indicate a significant difference in opinion in terms of marital status of the individuals or not?

11. The mothers of two hundred adolescents (some are graduates and others non-graduates) were asked whether they agree or disagreed on a certain aspect of adolescent behavior. The data collected are as follows:

	Agree	Disagree	Total	
Graduate mothers	38	12	50	
Non graduate mothers	84	55	150	
Total	122	78	200	

Solve to see that the attitude of these mothers are related to their being graduates or non-graduates?

12. Write the methods of improving effectiveness of rating scale.

(5)

(5)

Write about NEO 5 inventory.

(5)

\*\*\*\*\*\*\*\*\*\*\*\*

OR