



BRAINWARE UNIVERSITY

Term End Examination 2023-2024
Programme – B.Sc.(PSY)-Hons-2022
Course Name – Statistics and Research Methodology-II
Course Code - PSYC302
(Semester III)

Brainware University
Berasat, Kolkate -700125

Full Marks : 60

Time: 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

- Choose the correct alternative from the following:
- (i) Choose the correct statement about a null hypothesis.
 - a) It is the same as an alternative hypothesis.
 - c) It predicts a specific relationship between variables.
- b) It is usually the focus of the study.
- d) It is tested to determine if there is a significant effect.
- (ii) Choose the component that follows the formulation of a research hypothesis.
 - a) Data analysis

b) Literature review

c) Data collection

- d) Experimentation
- (iii) Choose the error that occurs when a null hypothesis is incorrectly rejected when it is actually true:
 - a) Type I error

b) Type II error

c) Neither

- d) Both
- (iv) Choose the best definition of a research problem.
 - a) A well-defined solution to a psychological question
- b) A question that can be easily answered without research
- c) An area of study that requires investigation or inquiry
- d) A hypothesis that has been proven
- (v) Choose the characteristic of a good research problem.
 - a) It is based solely on personal opinion.
- b) It is overly complex and hard to understand.
- c) It is specific and researchable.
- d) It is not influenced by existing research.
- (vi) Identify whether Spearman-Brown's formula is used for adjusting split half correlation?
 - a) False

b) None of these

c) All of these

- d) True
- (vii) Identify the primary goal of thematic analysis in qualitative data analysis:
 - a) Quantifying data

- b) Generating statistical correlations
- c) Identifying and analyzing patterns and themes
- d) Testing hypotheses



(viii)	choose the correct option for the following sent another situation or population in external valid	ence- Results can not be generalized to itv.			
	a) False				
		b) True d) None of these			
Cont	Chanse the correct and a sale fall	latera effect construction : 1-			
(IX)	Choose the correct order of the following general	steps of test construction of manual and			
	Reliability of the final test. 2- Validity of the final	test. 3-Preparation of management test. 3-Preparation of the			
	reproduction of the test. 4-Planning of the test.	5-Preliminary administration			
	test. 6- Writing items of the test. 7- preparation	of norms for the illian test.			
	a) 2-4-7-1-3-6-5	b) 4-6-5-1-2-7-3			
	c) 3-1-5-7-6-2-4	d) 5-6-2-1-3-4-7			
(x)	For achieving experimental try-out, identify who	recommended at least three			
	preliminary administrations of the test?				
		b) Miles Rodriguez			
	c) John Watson	d) Conrad			
YAS	Monthly the external and internal areas during after	diability-			
00125	a) Split half reliability	b) Richardson estimate of reliability			
	a) Split half reliability	b) Richardson estimate of remaining			
	c) Crombach s alpha	d) Test re-test reliability			
(XII)	Identify the main objective of content analysis in	qualitative data analysis.			
	ivieasuring statistical significance	 b) Identifying and analyzing patterns in or visual data 	textual		
	c) Conducting experiments	d) Generating quantitative data			
(xiii	Select the appropriate type of data that content	analysis is best suited for:			
		b) Qualitative data			
	c) Survey responses	d) Hypothesis testing data			
(xiv	Choose the stage in research where you make pr	edictions about the relationship			
(////	between variables.				
		b) Before defining the research problen	n		
		d) After data analysis			
(20)	Choose the correct definition of a hypothesis in p	•			
(^V)		b) A tentative statement that can be te	sted		
	-/	d) A subjective opinion	steu		
	c) An established theory	a) A subjective opinion			
	Consum				
	Group		3 x 5=15		
	(Short Answer Typ	de Questions)	2 X 2-13		
			(2)		
2. E	plain Yate's correction and mention the condition	is require to apply Yate's correction.	(3)		
	escribe the threats to internal validity.		(3)		
4. C	assify and discuss the methods of estimating relia	bility.	(3) (3)		
5. Describe causal hypothesis and descriptive hypothesis.					
6. W	rite the ways in which problem is manifested?		(3)		
	OR				
V	rite what are the types of problems? Give one ex	ample of each type of problem.	(3)		
	Group	i-C			
	(Long Answer Typ	e Questions)	5 x 6=30		
_	- 10 - 10 - 10		(E)		
	Explain in detail the type I & type II errors with exa		(5)		
	Explain data verification and validation strategies (used in qualitative research approaches			
	Explain how to evaluate web documents?	2 Fundain thora	(5)		
	Write about the basic principles of research design		(5) (5)		
	Compute the SE of the mean using the following form	requency distribution of body neights	(5)		
	(cm).				

Class intervals:	156-160	161-165	166-170	171-175	176-180
Frequencies:	4	14	25	11	6

12. Exp	lain them	atic analysi	s in	detail.
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(5)

OR

Explain narrative analysis.

(5)

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