



## **BRAINWARE UNIVERSITY**

Term End Examination 2024-2025 Programme - B.Sc.(PSY)-Hons-2023 Course Name - Basic Research in Psychology **Course Code - BPY30002** (Semester III)

Time: 2:30 Hours Full Marks: 60

[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 best example of a null hypothesis.
  - a) There is a significant difference in IQ scores between males and females.
- b) There is no significant difference in IQ scores between males and females.
- c) Males have higher IQ scores than females.
- d) IQ scores are unrelated to gender.
- (ii) Choose the type of hypothesis that predicts a specific outcome.
  - a) Null hypothesis

  - c) Descriptive hypothesis

- b) Alternative hypothesis
- d) Non-directional hypothesis
- (iii) Choose the purpose of a null hypothesis.
  - a) To predict an effect in an experiment
  - c) To prove the research hypothesis
- b) To provide a basis for comparison
- d) To make assumptions about the population
- (iv) Choose the best example of a non-directional hypothesis.
  - a) Exercising for 30 minutes a day will result in weight loss.
  - c) Exercising more leads to greater weight
- b) The amount of exercise is unrelated to weight loss.
- d) Exercising for 30 minutes a day will result in weight gain.
- (v) Choose the stage in the research process where you develop a hypothesis.
  - a) After data analysis

- b) Before defining the research problem
- c) After conducting a literature review
- d) After data collection
- (vi) Choose the purpose of a hypothesis in the research process.
  - a) To summarize existing research
- b) To state the opinions of researcher
- c) To provide a rationale for the study
- d) To make testable predictions
- (vii) Identify the type of variable that can influence the relationship between the independent and dependent variables if not controlled.
  - a) Confounding Variable

b) Dependent Variable

c) Independent Variable

d) Moderator Variable

		Choose the most suitable method for measurin	g a dependent variable that involves		
	(viii)	choose the most suitable mass emotions.  a) Self-report scale c) Physiological measure Identify the technique used to reduce practice ( a) Random Assignment			
	<i>*</i>	emotions.	b) Behavioral observation		
3		a) Self-report scale	d) All of these		
,,	S	c) Physiological measure	effects in repeated measures designs.		
7	(IX)	identify the technique	b) Counterbalancing		
		47	a) Control Group		
	(v)	<ul> <li>c) Standardization</li> <li>Choose the most appropriate technique for me</li> </ul>	asuring stress in a laboratory setting.		
	(×)	a) Cortisol levels	D) Heart rate		
			d) All of these		
	(xi)	c) Behavioral observation Identify the main purpose of sampling in psych-	ological research.		
	(,,	a) To increase the number of subjects	D) 10 save time and resources		
		A Table to the subject or participant	d) To include all individuals in the popul	lation	
	(xii)	Select the method of sampling that involves div	lect the method of sampling that involves dividing the population into groups before		
sampling.					
		a) Stratified sampling	b) Random sampling		
		c) Convenience sampling	d) Cluster sampling		
	(xiii)	Select the sampling method that works best wh	nen populations are geographically		
		dispersed.	·		
		a) Cluster sampling	b) Purposive sampling		
		c) Systematic sampling	d) Stratified sampling		
	(xiv)	Identify the characteristic that ensures a sampl population.	e is a good representation of the		
		a) Sample diversity	b) Larger sample size		
		c) Random selection	d) All of these		
(xv) Identify the requisite for external validity in research.					
		a) Generalizability	b) Internal consistency		
		c) Random error	d) Variable control		
	Group-B				
	(Short Answer Type Questions) 3 x 5			3 x 5=15	
	<ul><li>2. Write what are the types of research problems? Give one example of each type of problem. (3)</li><li>3. Describe the following IV- task variables, environmental variables and subject variable with examples.</li></ul>				
		escribe randomization as a technique of control	ling EV.	(3)	
		xplain double sampling.		(3)	
	6. Write characteristics of good research hypothesis.			(3)	
OR					
	Write how to state a hypothesis?			(3)	
Group-C					
		(Long Answer T	•	5 x 6=30	
			,		
	7.	Explain systematic sampling.		(5)	
	8. Differentiate between research method and research methodology.			(5)	
	Э.	5. Explain pilot experiment.			
	11.	Illustrate the steps to prepare a research propos	al.	(5)	
	12.	Describe counterbalancing as a technique of con Explain Ex post-facto research.	ntrolling EV.	(5) (5)	
			PR	(3)	
		Explain ethnographic studies.		(5)	