



Avinashilingam Institute for Home Science and Higher Education for Women

Deemed to be University Estd. u/s 3 of UGC Act 1956, Category 'A' by MHRD (now MoE)

Re-accredited with 'A++' Grade by NAAC. CGPA 3.65/4, Category I by UGC

Coimbatore - 641 043, Tamil Nadu, India

Continuous Internal Assessment Test I – February 2025

Semester-II

Class : I PG

Time : 2 Hours

Branch : Applied Psychology

Max.Marks : 60

23MAPC09 Experimental Design in Research

CO1: Explain the methods and function of research

CO2: Classify sampling, hypotheses testing and statistical inference

CO3: Solve Variance and its components

CO4: Classify various Research Designs

CO5: Apply the types of research and psychometric properties

Part A

Choose the correct answer

6 X 1 = 6

1. In this research approach, it focuses on numerical data and statistical analysis is CO1 K1
 - a) Qualitative research
 - b) Quantitative research
 - c) Mixed-method research
 - d) Philosophical research
2. A research problem is defined as CO1 K1
 - a) A challenge that researchers find interesting
 - b) A question that requires systematic investigation
 - c) Any topic that researchers want to explore
 - d) A general area of knowledge
3. ANOVA means CO2 K1
 - a) Analysis of Variance
 - b) Analysis of Variant
 - c) Analysis of Variety
 - d) Assumption of Variance
4. A sampling method where every individual has an equal chance of selection CO2 K1
 - a) Probability Sampling
 - b) Non Probability Sampling
 - c) Quota Sampling
 - d) Stratified Sampling
5. The most appropriate scale for measuring attitudes or opinion is CO3 K1
 - a) Ratio Scale
 - b) Interval Scale
 - c) Ordinal Scale
 - d) Nominal Scale
6. SDS means CO3 K1
 - a) Semantic Differential Scale
 - b) Semantic Difference Scale
 - c) Systematic Differential Scale
 - d) Semantic Differential System

Part B

Answer the following

Answer should not exceed 400 words or two page 3 X 6=18

7. a. Write short notes on Objectives of Research. CO1k3
(Or)
7. b. Explain about Types of Research. CO1 K3
8. a. Discuss about the Features of a Good Design. CO2 K3
(Or)
8. b. Briefly mention about Basic Principles of Research Design. CO2 K2
9. a. Explicate on Measurement Scales. CO3 K2
(Or)
9. b. Expound on Tests of Sound Measurement. CO3 K2

Part C

Answer the following

Answer should not exceed 800 words or four pages

3 X 12 = 36

10. a. Summarize about Research Process. CO1 K4
(Or)
10. b. Describe about Research Problem. CO1 K3
11. a. Delineate on Types of Research Design. CO2 K3
(Or)
11. b. Enumerate on Sampling Design. CO2 K3
12. a. Give a detailed account on Sources of Error in Measurement. CO3 K3
(Or)
12. b. Elaborate on Scale Classification Bases. CO3 K3

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