



**Avinashilingam Institute for Home Science and Higher Education for Women**  
(Deemed to be University under Category 'A' by MHRD, Estd. u/s 3 of UGC Act 1956)  
Re-accredited with A+ +Grade by NAAC. Recognised by UGC Under Section 12B  
Coimbatore - 641 043, Tamil Nadu, India

**Continuous Internal Assessment II - April 2025**  
**II Semester**

**Class: I PG**

**Branch: Applied Psychology**

**Time: 2 Hours**

**Max. Marks: 60**

**23MAPC09 EXPERIMENTAL DESIGN IN RESEARCH**

**Course Outcomes:**

**To enable students to**

- 1. Employ Scientific, Systematic and Empirical Method of Research.**
- 2. Examine the Appropriate Method of answering a Research Question.**
- 3. Critically evaluate and justify the findings of the Research.**

**Part A**

**Choose the correct answer**

**6 X 1 = 6**

- The types of data are  
a. 2                      b. 3                      c.3                      d.4  
CO3K1
- TAT means  
a. Thematic Apperception Test                      b. Thematic Apperception Trial  
c. Thematic Apperception Trait                      d. Thematic Apprehension Test  
CO3K1
- This is NOT a step in hypothesis testing  
a) Formulating the null and alternative hypotheses                      b) Collecting and analyzing data  
c) Ignoring statistical assumptions                      d) Making a decision based on statistical results  
CO4K1
- Chi-square test is primarily used for this kind of data  
a) Nominal data                      b) Interval data                      c) Ratio data                      d) Continuous data  
CO4K1
- The main purpose of ANOVA  
a) To compare the variances of two independent variables  
b) To compare the means of three or more groups  
c) To measure the correlation between variables  
d) To determine the probability of a single event  
CO5K1
- This is NOT a type of ANOVA  
a) One-way ANOVA                      b) Two-way ANOVA  
c) Multi-way ANOVA                      d) Paired ANOVA  
CO5K1

**Part B**

**3 X 6 = 18**

**Answer ALL questions**

**Each answer should not exceed 400 words or two pages**

- a. Briefly mention about Interview.                      (Or)                      CO3 K2
- b. Write short notes on Observation.                      CO3 K4
- a. Describe about the procedure for Hypothesis Testing.                      (Or)                      CO4 K4
- b. Expound on Chi-square.                      CO4 K3
- a. Explicate on Basic Principles of ANOVA.                      (Or)                      CO5K3
- b. Discuss about setting up of ANOVA Table.                      CO5 K3

**Part C**

**3 X 12 = 36**

**Answer ALL questions**

**Each answer should not exceed 800 words or four pages**

- a. Delineate on Primary Data Collection.                      (Or)                      CO3 K5
- b. Describe about Secondary Data Collection.                      CO3 K4
- a. Elucidate on Significant difference between means.                      (Or)                      CO4 K4
- b. Elaborate on Correlation Coefficient.                      CO4 K4
- a. Discuss about ANOVA Technique with example.                      (Or)                      CO5 K4
- b. Enumerate on Coding Method of ANOVA.                      CO5 K4

Copies :23

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**Staff in Charge: Dr. S. Gayatridevi**

