

MAY 2014

**P/ID 28702/PCYB**

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Time : Three hours

Maximum : 100 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions, each in 50 words.

All questions carry equal marks.

1. Correlation.
2. Null Hypothesis.
3. Type I Error.
4. Random sampling.
5. ANOVA.
6. Small Sample t-test.
7. Measurement.
8. Reliability.
9. Control group.
10. Objectivity.

PART B — (5 × 6 = 30 marks)

Answer ALL questions, each in 250 words.

All questions carry equal marks.

11. (a) What is Psychological Research?  
Or  
(b) Briefly explain the research methods.
12. (a) Explain the procedure for hypothesis testing.  
Or  
(b) What are the essential characteristics of a good questionnaire?

13. (a) Explain the meaning, criteria and types of Hypotheses with examples.

Or

- (b) Emphasise the uses of ANOVA in testing the significance.

14. (a) Write short note on Latin-Square design.

Or

- (b) Differentiate an Independent and Dependent variable.

15. (a) Write short note on the limitations and cautions in secondary data collection.

Or

- (b) What are the steps in sampling design? Explain.

PART C — (5 × 10 = 50 marks)

Answer ALL questions, each in 500 words.

All questions carry equal marks.

16. (a) Give a detailed note on descriptive statistics and its application.

Or

- (b) Define chi-square test. What are the steps to calculate chi-square value?

17. (a) Describe the non-probability sampling techniques with examples.

Or

- (b) Explain the process involved in Item Analysis.

18. (a) Give a detailed account on factorial design and discuss the basic assumptions in employing factorial design.

Or

- (b) Explain the factors which affect the reliability and validity. Suggest the methods to prevent.

19. (a) Write a Research Proposal with a research example.

Or

- (b) Explain the applications of computer in research.

20. (a) What are the types of Observation Methods in research and its advantages?

Or

- (b) Describe the different methods of scale construction, pointing out the merits and demerits.
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