

45143

M.Sc. DEGREE EXAMINATION, APRIL 2015.

FOURTH SEMESTER

Psychology

Paper III — ADVANCED STATISTICS AND RESEARCH METHODOLOGY

Time : Three hours

Maximum : 75 marks

(No additional sheet will be supplied)

PART A — (5 × 3 = 15 marks)

Answer any FIVE questions.

Each question carries 3 marks.

Each Answer should not exceed 1 page.

1. Stratified Random sampling.
2. Primary data.
3. Survey method.
4. APA Guidelines.
5. Matched 't' test.
6. Product Moment method.
7. MRA (Multiple Regression Analysis)
8. Selection of Sample size.

PART B — (4 × 15 = 60 marks)

Answer ALL questions.

Each question carries 15 marks.

Each answer should not exceed 6 pages.

9. What is Sampling. Briefly explain about Probability Sampling Methods.

Or

10. Define Data collection. Explain different collection methods of secondary data.
11. Explain the process of monitoring ethical practices in Scientific Research.

Or

12. Briefly describe the Ethical issues involved in Human research.

13. Compute 't' for a two-randomized groups design.

Group I 10 11 11 12 15 16 16 17

Group II 8 9 12 12 12 13 14 15 16 17

Or

14. What is the difference between 't' test and ANOVA.? Test the significance of difference for the following set of data

Group I 30 18 12 15 25 17 23 12 14 24

Group II 16 18 26 25 13 12 14 18 15 13

Group III 18 22 15 23 21 20 11 10 14 16

15. Define correlation. Calculate the correlation for using spearman rank order method

Students A B C D E F G H I J

X Scores 12 15 24 20 08 15 20 20 11 26

Y Scores 21 25 35 24 16 18 25 16 16 38

Or

16. What is a Multiple Regression Analysis? How it is used for predicting the value of a dependent variable illustrate with the help of an example?

