

Roll No.

Total No. of Questions : 13]

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J-3313[S-1169]

[2037]

M.Sc.(HMCTT/HMT)(Semester - 4th)

METHODS OF RESEARCH AND ANALYSIS (M.Sc.(HMT)-402)

Time : 03 Hours

Maximum Marks : 75

Instruction to Candidates:

- 1) Section - A is **compulsory**.
- 2) Attempt any **Nine** questions from Section - B.

Section - A

Q1)

(15 x 2 = 30)

- a) State any 3 advantages of the multiple - choice question.
- b) What is field experimentation?
- c) Write briefly on Factor analysis.
- d) Explain the need for stratification.
- e) Give mathematical expression for analysis of covariance.
- f) Define standard error.
- g) Write a short note on Types of Hypothesis.
- h) What are the applications of correlation?
- i) What is meant by Analysis of variance?
- j) What are the applications of Chi-Square test?
- k) List out the basic assumptions to apply ANOVA technique.
- l) Write a short note on Regression analysis.
- m) Enlist the types of probability and non-probability sampling methods.
- n) Write short note on Field Study.
- o) Explain the term Level of significance.

P.T.O.

Section - B

(9 x 5 = 45)

- Q2)** Explain the principles of experimentation with examples.
- Q3)** Write short notes on each of the following
- (a) Content Analysis
 - (b) Action Research
- Q4)** Distinguish between ANOVA and ANCOVA. Illustrate with appropriate examples.
- Q5)** What is meant by 'Export factor' research? How will you employ this method? Explain.
- Q6)** Explain the process of estimation and testing a hypothesis?
- Q7)** What is meant by 'Hypothesis'? List the characteristics of a good hypothesis. Identify its uses.
- Q8)** Distinguish between Cluster Analysis and Factor Analysis. Illustrate.
- Q9)** Define sampling. Discuss the theory and types of sampling.
- Q10)** What is the meaning of regression. Explain regression lines and regression coefficients.
- Q11)** Explain how the Before - After without control experimental design is used. What are its strengths and weakness?
- Q12)** Explain the role and importance of computer in Educational Research.
- Q13)** Write a detailed note on data processing and analysis.
