

**MPL-631**

**RED - 01**

**M.Phil. DEGREE EXAMINATION –  
JUNE 2006.**

**Education**

**ADVANCED RESEARCH METHODOLOGY AND  
EDUCATIONAL STATISTICS**

Time : 3 hours

Maximum marks : 75

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- (1) Answer any THREE questions from Part A and each question carries 5 marks. The answers may not exceed 1 page.
  - (2) Answer any FOUR questions from Part B and each question carries 15 marks. The answers may not exceed 4 pages.
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**PART A — (3 × 5 = 15 marks)**

1. Illustrate Action Research.
2. Give the purpose of external criticism and internal criticism in historical researches.

3. What are the statistical techniques that can remove the influence of a confounding variable?
4. What do you know about Monn-Whitney Test?
5. What do you understand by two tailed and one tailed test of significance?

**PART B — (4 × 15 = 60 marks)**

6. Write a research proposal for the research problem of your choice.
7. Define a sample. Describe the different types of sampling.
8. How will you arrive at the validity and reliability of a test?
9. Describe the role of computers in educational research.
10. When is a non parametric test used? Explain any two non parametric tests used in inferential statistics.
11. Describe experimental design in detail.
12. Give the significance of analysis of variance (ANOVA) in detail.