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Name.....

Reg. No.....

**SECOND SEMESTER M.Ed. (2017 SCHEME) DEGREE
EXAMINATION, JULY 2024**

M.Ed.

MED 08—ADVANCED EDUCATIONAL RESEARCH AND STATISTICS

Time : Three Hours

Maximum : 80 Marks

Section A

Answer all questions.

Each question carries two marks.

1. Explain ANCOVA.
2. What are the different systems of writing a bibliography ? Give an example for each.
3. What is the standard error of Means ?
4. Write short note on Parameter and Statistic.
5. What is Yate's correction ? When will you apply it ?

(5 × 2 = 10 marks)

Section B

Answer any eight questions.

Each question carries 5 marks.

6. Explain the components of the Research Report.
7. Give examples of correlational research. What are the applications ?
8. What do you mean by Case Study ? Explain the steps involved in Case Study Research.
9. Explain the principles and types of mixed methods research.
10. What do you mean by Research Design ? Describe any one quasi-experimental design.
11. Describe the qualitative research methods used in education.
12. Explain the ethical issues in educational research.

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13. Write a short note on Ethnographic research.
14. Critically analyse the use of computers for an educational researcher. Describe any one software for statistical analysis and interpretation of data.
15. Define Confidence intervals. The scores of 9 children on a retention test are as follows : 5, 7, 6, 8, 9, 4, 4, 6, 5. Compute 99 % confidence intervals for the true mean.
16. Describe the preparation of the "Observation schedule". How is the Observation schedule helpful for a researcher ?
17. Describe the criteria for evaluation of a Research Report.

(8 × 5 = 40 marks)

Section C

Answer any two questions.

Each question carries 15 marks.

18. Prepare a Research Proposal for a Problem of your choice.
19. What do you mean by Historical Research ? Explain briefly the steps involved in Historical research. How will you ensure the validity of the data collected ?
20. (i) Differentiate between parametric and non parametric tests with examples
(ii) A Test on Quantitative Methods was conducted on a group of 89 male and 109 female college students. The number of students in each category is given below. Are women significantly better at Quantitative Methods than Men ?

Marks	Gender		Total
	Male	Female	
Low	53	53	106
High	36	56	92
Total	89	109	198

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21. (i) What do you mean by 'significance of the difference between Means'? How will you test it ?
- (ii) An attitude test was administered to 550 girls and 490 boys. The mean and standard deviation of the scores of Girls were 93.5 and 11.2, and that of Boys were 91.6 and 10.9, respectively. Test whether there exists a gender difference in attitude.

(2 × 15 = 30 marks)

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