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SECOND SEMESTER M.Ed. EXAMINATION, JUNE 2019
MED 08—ADVANCED EDUCATIONAL RESEARCH AND STATISTICS
(2017 Admissions)

Time : Three Hours

Maximum : 80 Marks

I. Answer all questions. Each question carries 2 marks :

1. Distinguish between Statistic and Parameter.
2. Define the term Hermeneutics.
3. What do you understand by the concept 'standard error'?
4. Write a note on Ex-post facto research.
5. State how p value is related to alpha (α) value and predict the status of null hypothesis (H_0) ?

(5 × 2 = 10 marks)

II. Answer any eight questions out of twelve. Each question carries 5 marks :

6. "Triangulation is a method used by qualitative researchers to establish the validity of research", Validate this statement. What are the different types of triangulation?
7. Give your understanding of non-parametric or distribution free methods explaining their important characteristics.
8. What all considerations will you keep in mind while developing a good questionnaire?
9. What are different sociometric techniques? Explain its advantages.
10. Explain the nature and characteristic of Grounded theory research.

11. The Pre test and post test scores of an experimental group are given below :

Test	Mean	SD	N
Pre Test	84	8	
Post Test	92	9	32

Correlation Coefficient (r) = 0.52

12. Test whether there exist any significant difference between pre test and post test scores?
12. What are the advantages and limitations of mixed research methods?

Turn over

15. A public opinion poll surveyed a random sample of 1,000 voters. Respondents were classified by gender (male or female) and by voting preference (Republican, Democrat, or Independent). Results are shown in the contingency table below :

	Voting Preferences			Row Total
	Republican	Democrat	Independent	
Male	250	170	80	500
Female	300	150	50	500
	550	320	130	1000

Do the voting preferences differ significantly based on gender? (Table Value is 5.991 at 0.05 level of significance, $df = 2$)

15. Write a note on :

(a) Post hoc fallacy.

(b) Meta Analysis.

16. Enumerate the difference assumptions for using Analysis of Covariance.

16. Explain the significance of Excel software in data analysis process.

17. Detail out the different ethical issues in educational research.

(2 × 5 = 40 marks)

III. Answer any two questions out of four. Each question carries 15 marks :

18. Distinguish between quantitative and qualitative research. What are the different types of quasi experimental designs, illustrate with examples.

19. Explain in detail the procedure adopted for the construction and standardization of the research tool.

20. In a study the effectiveness of ELT was to be determined for this three groups of students were selected from class IX and the package was administered. The data collected for three groups is as follows :

Group I : 10, 13, 11, 5, 8, 9, 5, 6, 4, 2

Group II : 9, 11, 12, 14, 12, 8, 9, 7, 6, 3

Group III : 11, 7, 9, 6, 5, 4, 5, 16, 4, 9

Apply Analysis of Variance technique to test the significance of difference between groups?

21. Prepare a research proposal for a funding agency especially for a teacher training program? The idea of the research proposal should high light a framework design for implementing the training programme especially the plan of activities and funding requirements?

(2 × 15 = 30 marks)