

C 25373

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Name.....

Reg. No.....

SECOND SEMESTER M.Ed. DEGREE EXAMINATION, JUNE 2017

Education

MED 08—ADVANCED EDUCATIONAL RESEARCH AND STATISTICS

(2015 Admissions)

Time : Three Hours

Maximum : 80 Marks

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

- 1 List any advantages of observation technique.
- 2 Mention any *two* characteristic features of qualitative research.
- 3 Which test is used to test the significance of difference between *two* means ?
- 4 Mention any *two* assumptions of ANOVA.
- 5 What is meant by Type-1 error.

(5 × 2 = 10 marks)

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

- 6 Explain different types of interview with suitable examples.
- 7 How can sociometry be effectively used to study the group of students ?
- 8 Discuss the characteristics of a good questionnaire.
- 9 Explain any *one* scale with suitable example.
- 10 Discuss about checklist and schedule.
- 11 Suggest any *two* research problems for which survey method would be suitable and justify them.
- 12 "Some studies can be completed only by mixed research methods". Justify.
- 13 Elucidate the ethical issues in conducting educational research.
- 14 Explain the concept of linear regression and the applicability of regression equation in research.
- 15 Elucidate confidence interval and level of confidence.

Turn over

- 16 The scores of 95 boys and 64 girls of X Standard on word building test are as follows :

Statistics	Boys	Girls
N	32	34
Mean (M)	87.43	82.58
S_1^2	39.4	40.8

Assuming that the samples are random, test whether the difference between means is significant at .05 level and 0.01 level.

- 17 Discuss how Excel software can be used in Educational research.

(8 × 5 = 40 marks)

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

- 18 Explain the criteria of a good research tool.
- 19 The effectiveness of package to enhance critical thinking has to be studied on academic achievement of IX Standard students of Calicut city. Which experimental design do you choose and why? Identify the dependent variable, independent variable, population and sample, hypothesis to be tested.
- 20 The 200 hostel students of a University from Arts, Science and Commerce discipline gave the details regarding the number of cigarettes smoked by them per day. Is the variable discipline related to number of cigarettes smoked by them per day :

Serial No.	Discipline	None	1-15	More than 15	Total
1	Arts	6 (12)	6 (56)	14 (12)	80*
2	Science	14 (12)	8 (12)	8 (12)	80*
3	Commerce	10 (6)	8 (6)	8 (6)	40*
4	Total	30**	30*	30*	200 (Grand total)

* $\sum f$ row

** $\sum f$ column

- 21 Explain the process of standardization of a test.

(2 × 15 = 30 marks)