

24/10/18
Regular

D 44263

(Pages : 2)

Name.....

Reg. No.....

SECOND SEMESTER M.Ed. DEGREE EXAMINATION, JUNE 2018

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 What do you mean by 'Triangulation' in Research ?
- 2 Explain the terms 'ibid' and 'op cit' ?
- 3 What is meant by 'standard error of mean' ?
- 4 Write any *four* advantages of statistical software by specifically taking any one among them ?
- 5 Explain the concept 'sociogram' ?

(5 × 2 = 10 marks)

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

- 6 What are the qualities of a good research questionnaire ?
- 7 Describe Ex-Post facto research.
- 8 Explain the significance of phenomenology in qualitative research ?
- 9 Write the characteristics of 'Good Research Report' ?
- 10 Distinguish between Type I and Type II errors with suitable illustrations.
- 11 Mention the characteristics and advantages of Linear Regression.
- 12 What are the different types of quasi experimental designs ? Explain.
- 13 State the conditions on which ANCOVA is used ?
- 14 Give out conceptual analysis of 'Mixed methods of Research' ?
- 15 Given the following data

Marks in Physics (X)	Marks in Civics (Y)
$M_x = 80$	$M_y = 70$
$SD_x = 7$	$SD_y = 8$
$r = 0.78$	

Determine the regression equation and predict the marks in Civics of a student whose marks in Physics is 70.

Turn over

- 16 Two groups of teachers selected randomly from two different types institutions, were administered an attitude scale and the following data was collected :

Institution		N	M	SD
1	..	40	60	6
2	..	50	55	5

Do the groups differ significantly in their attitude ?

- 17 What do you know about SPSS ? Enumerate the advantages of statistical softwares in quantitative research ?

(8 × 5 = 40 marks)

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

- 18 What is Analysis of Variance ? Discuss the Assumptions and Procedure for calculating ANOVA ? In which circumstances the technique of ANOVA is preferred over *z* or *t* tests ?
- 19 What are the assumptions based on which parametric and non-parametric tests are used ? Using Chi-square check whether there is any association between the sex and nature of work for the following data :

Sex	Nature of Work	
	Skilled	Unskilled
Male	50	30
Female	15	35

- 20 Explain the different approaches of qualitative research with special focus on phenomenology, ethnography, grounded theory and naturalistic enquiry ?
- 21 Prepare a model research proposal for any of the current topics in Education ? Explain the Criteria for a good research report ?

(2 × 15 = 30 marks)