

1128
M.Ed. (General) First Semester
Paper – III (C03-ERS-I): Educational Research and Statistics – I

Time allowed: 3 Hours

Max. Marks: 70

NOTE: Attempt five questions in all, including Question No. IX (Unit-V) which is compulsory and selecting one question each from Unit I - IV.

X-X-X

UNIT – I

- I. Describe meaning, importance of educational research. Discuss various types of educational research by quoting relevant examples. (3,4,7)
- II. Discuss the criteria of selection of good research problem by quoting relevant examples. Enumerate the procedure of survey of related literature. (9,5)

UNIT – II

- III. What is sampling frame? Discuss any four techniques of probability sampling with examples. (2,12)
- IV. Discuss formulation of various types of hypotheses with examples and explain Type-I and Type-II errors. (9,5)

UNIT – III

- V. Draw a less than Ogive and more than Ogive for the following data and determine the value of median through each of them:

Scores	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100
Frequency	11	16	25	29	38	45	20	11	7

(14)

- VI. Calculate range, average deviation, and standard deviation for the following data:-

22	8	20	24	21	19	17	18	22	18	11	9	29
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(14)

UNIT – IV

- VII. Enumerate the characteristics and applications of normal probability curve. (14)
- VIII. Compute Pearson's coefficient of correlation for the scores of 13 students in tests of Science and Punjabi and test its significance

Science	56	61	64	57	68	59	77	71	45	65	67	55	60
Punjabi	34	45	56	67	78	43	34	62	60	71	87	31	49

(2)

UNIT - V

IX. Write short notes on the following:-

- a) Limitations of qualitative research
- b) Convenient sampling
- c) Box plot
- d) Positive and negative correlation

(4x3½)

x-x-x