2031

M. Ed. (General)-First Semester

Paper –III (C03-ERS-I): Educational Research and Statistics – I

(In all mediums)

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. What are the steps of scientific method? Discuss the need and importance of research in education. (14)

II. Discuss the various steps in preparation of a research proposal. (14)

UNIT - II

III. What are the sources of a hypothesis? Point out the good characteristics of a hypothesis. (5+9)

IV. What are the steps of selecting a sample? Discuss non probability sampling methods with the help of relevant examples. (4+10)

UNIT - III

V. Compute mean and Median for the following data:-

C.I:	30-31	28-29	26-27	24-25	22-23	20-21	18-19
f:	2	2	9	10	12	4	3

(7+7)

VI. Compute Quartile Deviation and Standard deviation for the following data

C.I:	80-84	75-79	70-74	65-69	60-64	55-59	50-54	45-49
f:	6	7	8	12	18	13	6	5

(14)

UNIT - IV

VII. Compute Pearson's Coefficient of correlation for following data also interpret the result.

X	15	18	16	12	20	15	12	10
Y	20	25	22	12	28	18	10	12

(14)

VIII. Given a normal distribution with Mean =40 and S.D =8 (a) What percent of cases lie between 36 and 48 (b) What percent of cases score less than 35? (7+7)

UNIT - V

IX. Write short notes on the following:-

a) Difference between fundamental and action research

b) Characteristics of a good hypothesis

c) Importance of statistics in research

d) Characteristics of Normal Probability Curve (4x3½)

y-y-y