(December)

Education

Course No: EDNC-104

Research Methodology in Education - I

Full Marks: 75

Time: 3 hours

The figures in the margin indicate full marks for the questions.

Answer any five questions

- 1. Describe the steps involved in selecting a research problem. How does a researcher evaluate the selected research problem before accepting it as final?

 10+5=15
- 2. What is meant by Hypothesis? What are its characteristics? Discuss the various types of hypothesis.

 5+5+5=15
- 3. Explain Rating scales and Observation as the tools of data collection. $7\frac{1}{2}+7\frac{1}{2}=15$
- 4. What is probability sampling? Explain in detail the technique of Systematic Random Sampling. Give its advantages and disadvantages.

 3+8+4=15
- 5. (a) What are the characteristics of Normal Probability Curve?
 - (b) In an abstract reasoning test the distribution is essentially normal with M=100 and SD=20. Find out .
 - (i) What percentage of scores lie between 85 and 125
 - (ii) The middle 60% fall between what two points.

5+10=15

- 6. (a) Explain the concept of Kurtosis and Skewness.
 - (b) In a given test, 10% students solved question 1, 20% solved question 2, 30% solved question 3, and 40% solved question 4. Determine relative difficulty of questions.

 5+10=15
- 7. (a) Explain the concept of Multiple Correlation.
 - (b) The correlation coefficient between three variables viz Motivation X₁ AnxietyX₂ and Achievement X₃ is given as below.

r₁₂₌ 72 r₁₃₌ .64 r₂₃₌ 54

5+10= 15

- 8. (a) Explain the concept of Regression and Prediction.
 - (b) Compute the coefficient of correlation between the following sets of scores by Product Moment Method.

	A	В	C	D	E	F	G	Н	I	J	K	L
Subject						4						
Test X	30	16	29	42	21	30	32	43	25	18	31	24
Test Y	20	14	15	17	11	15	18	14	16	15	21	18

9. Write short notes on any two of the following:

7 1/2 +7 1/2 =15

- 1) Methods of Acquiring Knowledge.
- 2) Scope of Educational Research
- 3) Preparation of Research proposal
- 4) Uses and limitations of Partial Correlation.