

## DEPARTMENT OF EDUCATION, PANJAB UNIVERSITY, CHANDIGARH

## PRE-PIED. QUESTION PAPER (OCT. 2014)

Attempt 6 questions in all. Select one each from first five units, question no. 11 is compulsory.

## UNIT-I

- Q1. Discuss the need of reviewing the literature. What are the steps of conducting review?  
 Q2. What is the need of educational research? What are the steps of identifying and defining the research problem?

## UNIT-II

- Q3. What is an experiment? Discuss the various types of experimental designs?  
 Q4. Explain any one qualitative method of research.

## UNIT-III

- Q5. Discriminate between probability and non probability sampling techniques.  
 Q6. Discuss the steps of development and standardization of a research instrument.

## UNIT-IV

- Q7. a) Explain Type I and Type II errors  
 b) Compute t-ratio for the given data and discuss the obtained result in light of null hypothesis

Mean scores on Intelligence Test

	$M_1 = 120$	$M_2 = 124$
With	$SD_1 = 8$	$SD_2 = 11$
And	$N_1 = 45$	$N_2 = 50$

- Q8. a) Explain the concept of 'Correlation' and discuss the types of correlation.  
 b) Compute rank order correlation for the following data:

$X_1$	20	18	11	16	9	15	13	10	7	20	12
$X_2$	19	14	13	15	11	7	12	11	10	18	15

## UNIT-V

- Q9. What is a research proposal? What are the criteria of a good research proposal?  
 Q10. Discuss the criteria for evaluation of research.

Q11. Write short note on the following:

- Differences between basic, applied and action research.
- Case study.
- Observation.
- Triangulation.