

2018
(December)
Course No: EDNC:105
Research Methodology in Education II
Full Marks: 35
Time: 1 ½ hours

The figure in the margin indicate full marks to the questions

Answer Q. No. 5 and any two from the rest

1. What are the criteria for selecting an experimental design? Explain the threats to external and internal validity in the experimental research. 5+10= 15

2. What is Ex-Post facto research? In which situation is Ex-Post facto research used? What are the steps of the Ex-Post facto research? Point out its merits and demerits. 3+4+5+3= 15

3. a. Explain one-tailed test and two-tailed test. 5+10= 15

- b. Ten subjects were tested on an Attitude scale. Then, they were made to read some literature in order to bring about change in their attitudes. The attitude scale was re-administered. The results of the initial and final testing are as under:

Initial	10	11	14	13	9	18	20	18	17	22
Final	10	18	17	15	15	18	25	24	23	25

Is the gain in score significant at 5% and 1% error?

4. a. State the assumptions of ANOVA. 5+10= 15

- b. Apply ANOVA to test whether the means of the four groups differ significantly.

Group 1	Group 2	Group 3	Group 4
6	8	4	12
7	9	5	13
4	6	2	8
8	10	6	7
5	7	3	10

5. Write short notes on any one of the following : 7½

- a. External and Internal Criticism of Historical Method
b. Type I and Type II error