

**Professional Course Examination, Odd 2020**

(3<sup>rd</sup> Semester)

**MASTER OF EDUCATION**

Paper : M.Ed/3/CC/302

**(Advanced Research Methods and Statistics in Education)**

**(Revised)**

*Full Marks : 60*

*Time : 3 Hours*

**Instructions:**

1. Questions should be attempted as per instructions.
2. Do not copy the Questions. Indicate the Questions No. clearly while attempting the answer.
3. The figures in the margin indicate full marks for the questions.

1. Write short notes on **any three** from the following:

- i) Research Design (5x3=15)
  - ii) Threats to validity of quantitative research
  - iii) Characteristics of Narrative Research
  - iv) Focus Group Discussion
  - v) Type - I and Type - II Errors
  - vi) Uses of Case Study
  - vii) Concept of Parametric and Non-Parametric Statistics
2. What is Experimental Research Design? Explain the concept and characteristics of true Experimental Design. (5+10=15)
3. What is Phenomenological Research? Explain the uses and steps involved in conducting Phenomenological Research? (5+10=15)
4. Explain the meaning and importance of triangulation of Data. (15)
5. Two groups X and Y of 7<sup>th</sup> Grade children, 72 in each group are paired child for child age and score on Form A of

the group intelligence Test. Three weeks later, each group are given Form B of the same test. Before the second test, Group X, the experimental Group is praised for its performance on the first test and urged to try to better its score. Group Y, the control group is given the second test without comment. Will the incentive (Praise) cause the final scores of Group X and Y to differ significantly? Test the significance of the difference and interpret the result. (15)

	Group X	Group Y
No. of children in each group	72	72
Mean Score on Form A	80.42	80.51
SD on Form A	23.61	23.46
Mean Score on Form B	88.63(M <sub>1</sub> )	83.24(M <sub>2</sub> )
SD on form B	24.36(SD <sub>1</sub> )	21.62(SD <sub>2</sub> )
Correlation between final scores (Experimental and control groups)=.65		

6. The following data represent the scores of six students in each of the five sections of class IX of a school on a vocabulary test. Apply the analysis of variance to test the