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Name....................................

Reg. No...................................

Ph.D. PRELIMINARY QUALIFYING EXAMINATION, JULY 2022

Education

Paper I—RESEARCH METHODOLOGY

Time : Three Hours

Maximum : 70 Marks

Section A

Answer any **two** *questions.*
Each question carries 15 marks.

1. Define the term 'Educational Research'? Discuss the base for classifying educational research into 'basic' and 'applied research' with suitable examples from the educational field.

2. Explain the importance of experimental research designs in educational research. Enumerate different types of experimental research and state in which context each one is applicable.

3. Describe any three major methods under qualitative research design with suitable illustrations.

4. Discuss the significance of Inferential statistics in educational research. Explain any one parametric test used for hypothesis testing involving more than two groups with suitable examples and steps.

(2 × 15 = 30 marks)

Section B

Answer any **eight** *questions.*
Each question carries 5 marks.

5. Explain the functions of educational research.

6. What are the different sources for formulating a problem in educational research ?

7. In which context 'Ex-post facto' research method is applied ?

8. Describe the outline of a research proposal for a suitable problem from the School Education stage.

9. Discuss a research problem wherein Soloman four group design is applied.

Turn over

10. Explain the steps followed before analysing the data using any software ?

11. What ethics are to be followed while conducting educational research ?

12. Explain the procedure to be followed in communicating the research findings

13. Given 500 scores distribution with Mean = 50 and SD = 6, assuming normality, find out how many students get a score between 40 and 70.

14. Explain the systematic and random errors in sampling.

15. Discuss the procedure followed for computing the Analysis of Covariance (ANCOVA) for a given set of data using a software.

16. Illustrate a situation where in Chi-square test is appropriate for the analysis of the data.

$(8 \times 5 = 40 \text{ marks})$