Ph.D. PRELIMINARY QUALIFYING EXAMINATION, DECEMBER 2021

Education

Paper I—RESEARCH METHODOLOGY

Time : Three Hours

Maximum : 70 Marks

Section A

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

1. Explain the significance of educational research. Describe the various functions of research.

2. Explain different types of sampling that can be adopted for conducting research.

3. Describe various quantitative research designs.

4. Discuss the way in which a problem is formulated and a design is selected in a quantitative research with a suitable example.

(2 × 15 = 30 marks)

Section B

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

5. Explain phenomenological method of research with a problem from education.

6. Discuss the different experimental designs.

7. Explain the data collection strategies and mode of analysis in qualitative research.

8. Describe the components of a research proposal with a suitable example from education.

9. Differentiate between Causal Comparative research and Correlational research,

10. Explain Expost-facto research with an exantple.Mention its purpose and merits.

11. Discuss the steps involved in preparing a research report.

12. Differentiate between parametric and non-parametric tests with examples. Explain the benefits of using these tests.

13. Explain Type 1 and Type 2 errors. Which is more serious ? Why ?

Turn over

14. Explain the techniques of ANOVA and ANCOVA.

15. What do you mean by Standard error ? How do you calculate Standard error ?

16. Explain the terms :

    (a) Ethnomethodology.

    (b) Directional and Noil directional tests.

    (c) Level of significance.

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