

(Pages : 2)

Name.....

Reg. No.....

Ph.D. (PRELIMINARY QUALIFYING) EXAMINATION, JUNE 2016

Economics

Paper I—RESEARCH METHODOLOGY

Time : Three Hours

Maximum : 70 Marks

Part A (Very Short Answer Questions)

*Answer all questions.
Each question carries 2 marks.*

1. What is plagiarism? ✓
2. What is hypothesis? ✓
3. What is applied Research? ✓
4. Define action research. ✓
5. Explain cluster sample. ✓
6. Differentiate cross section and panel data. ✓
7. What is a bibliography? ✓
8. Explain ratio scales. ✓
9. What is a snowball sample? ✓
10. What is a standard error? ✓

(10 × 2 = 20 marks)

Part B (Short Essay Questions)

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

11. How will you develop an econometric model? ✓
12. Examine the characteristics of social science research. ✓
13. Explain systematic sampling.
14. What is a nominal distribution? ✓
15. What is economic forecasting? ✓

Turn over

16. The student of a coaching class for NET examination are randomly assigned to group and they are trained for a better performance in the competitive examination by three methods. At the end of the training they are tested for better performance.

The following are their performance scores :

Method A	80	83	79	85	90	68	61	
Method B	82	84	60	72	86	67	91	62
Method C	93	65	77	78	88	48		

Use Kruskal-Wall's test to determine at the 0.05 level of significance, whether the three methods are effective.

(4 × 5 = 20 marks)

Part C (Long Essay Questions)

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

17. Explain how to formulate a research problem.
18. Explain the procedures, uses and interpretation of principal component analysis.
19. Explain different types of samples. Examine the merits and demerits of each sample.
20. Examine the status of social science research in India.

(2 × 15 = 30 marks)