

D 14525

(Pages : 2)

Name.....

Reg. No.....

**Ph.D. PRELIMINARY QUALIFYING EXAMINATION, DECEMBER 2021**

Economics

**Paper I—RESEARCH METHODOLOGY**

Time : Three Hours

Maximum : 70 Marks

**Part A (Very Short Answer Questions)***Answer any **ten** questions.**Each question carries 2 marks.*

1. 'Goodness of Fit' of a regression model.
2. Moderating Variable with an example.
3. Exploratory research design.
4. Participatory Research Appraisal.
5. D-W statistic in a regression analysis.
6. Significance of p-value in statistical analysis and its interpretation.
7. Distinction between time series and cross-sectional study designs.
8. Snowball sampling technique with 2 examples.
9. Data triangulation.
10. Analysis of variance with an illustrative example.
11. The purpose of randomization in experimental designs.
12. Distinction between inductive and deductive methods.

(10 × 2 = 20 marks)

**Part B (Short Answer Questions)***Answer any **four** questions.**Each question carries 5 marks.*

1. List out the Possibility of Errors in statistical Measurements.
2. What is a Chi-square test ? Illustrate with 2 examples using Chi-square test ?

**Turn over**

3. Explain the concept of research validity and its importance in quantitative research. Provide examples of threats to internal and external validity in quantitative research.
4. What is Plagiarism ? How to address the problems due to plagiarism ?
5. What is a sampling technique ? Discuss the sampling techniques for both quantitative and qualitative research and justify the selection of the sampling technique. Discuss what you are measuring and how you are measuring it.
6. What is the role of ethics in conducting research studies? Explain how you as a researcher should be ethically oriented while conducting your research study from the very beginning of research till completion of the thesis ?

(4 × 5 = 20 marks)

### **Part C (Long Essay Questions)**

*Answer any **two** questions.*

*Each question carries equal marks.*

1. What is a Hypothesis ? what are the hypotheses you wish to explore in the research that you undertake as part of your thesis ? With reference to the relevant literature and your own observations of the real world, explain how you arrived at those hypotheses. Lay out your research questions and justify your choice of research methods and data sources for exploring the research questions.
2. What is systematic literature review (SLR) ? How it is different from the conventional literature review ? How SLR helps in strengthening a researcher's contributions in research? Explain these questions with reference to your research topic.
3. What is mixed methods research ? There has been considerable debate on the merits of quantitative and qualitative methods of data collection in research.
4. Compare and contrast the main concerns of quantitative and qualitative researchers regarding :
  - (a) The Goals involving mixed methods research, ie., Data collection, sampling, and analysis;
  - (b) Conceptions of reliability, validity, and trustworthiness; and
  - (c) Research ethics and positionality.

(2 × 15 = 30 marks)