

2024

ECONOMICS — HONOURS

Paper : SEC-3

(Data Analysis and Research Methodology)

Full Marks : 50

*The figures in the margin indicate full marks.**Candidates are required to give their answers in their own words as far as practicable.*Answer **any ten** questions.

5×10

- ~~1.~~ Define Power Query and explain its primary purpose in Excel.
- ~~2.~~ Differentiate between complete enumeration and sample survey, highlighting their respective advantages and disadvantages.
3. List the four main steps involved in the Power Query process and briefly describe each.
- ~~4.~~ Explain the concept of stratified random sampling and its benefits over simple random sampling.
- ~~5.~~ Describe the practical steps involved in drawing a random sample using random number tables.
- ~~6.~~ What are the key considerations when preparing a blank table for a field survey?
- ~~7.~~ Outline the essential elements to be considered while designing a questionnaire for a survey.
- ~~8.~~ Explain the process of loading Excel data into Power BI and preparing it for visualization.
- ~~9.~~ Describe two different types of visualizations available in Power BI and explain when you might use each.
- ~~10.~~ Explain the importance of cross-checking data after tabular representation.
11. What are the different data sources that can be connected to Power Query in Excel? Give at least three examples.
12. Explain the 'Transform' stage in Power Query and provide two examples of data transformation operations.
- ~~13.~~ Discuss the role of units of measurement in recording and validating data.
14. Describe how Power Query can be used to clean data, giving specific examples of cleaning techniques.
15. What is Power BI Desktop and how does it differ from the Power BI Service?