

U.G. 6th Semester Examination - 2022**STATISTICS****[PROGRAMME]****Skill Enhancement Course (SEC)****Course Code : STAT-G-SEC-1D****(Research Methodology)**

Full Marks : 25(20+5)

Time : 2 Hours

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.**Notations and symbols have their usual meanings.*

1. Answer any **two** questions: $5 \times 2 = 10$
- a) Explain the objectives and significance of literature review in research.
 - b) Distinguish between probability sampling and non-probability sampling. Mention the assumptions of a probability sampling.
 - c) Distinguish between descriptive statistical analysis and inferential statistical analysis.
 - d) Describe the questionnaire method of data collection.

2. Answer any **one** question: $10 \times 1 = 10$

- a) Explain the terms 'postulate', 'assumption' and 'hypothesis' in the context of a research work.
- b) What is experiment? Discuss the different characteristics of a controlled experiment.

[Internal Assessment : 5]

[Turn over]