



B.Sc./4th Sem (H)/GEO/24(CBCS)

2024

4th Semester Examination

GEOGRAPHY (Honours)

Paper : SEC 2-T

[CBCS]

Full Marks : 40

Time : Two Hours

The figures in the margin indicate full marks.

Candidates are required to give their answers

in their own words as far as practicable.

(Research Methods)

Group - A

Answer any *five* questions :

2×5=10

1. What is research ethics?
2. What are the major sources of secondary data?
3. Why Abstract is important in research report writing?
4. What is a research problem?
5. What is Random Sampling?
6. What is research design?
7. What is a citation? Give example.

P.T.O.

(2)

8. Mention two disadvantages of non-participant field techniques.

Group - B

Answer any *four* questions : $5 \times 4 = 20$

9. Differentiate between Questionnaire and Survey schedule.
10. Discuss the importance of literature review.
11. Distinguish between quantitative and qualitative research.
12. Describe the role of Group discussion as a method of data collection.
13. Write a short note on Footnotes and Bibliography.
14. Explain the major principles and methods of writing an ideal Field Report.

Group - C

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

15. Briefly describe the major steps of systematic literature review. Write the importance of literature review in research.
16. Write a detailed note on common ethical issues in research. What are the selection procedures of study area with suitable example of Geographical research?

5+5

(3)

OR

(Advanced Spatial Statistical Techniques)

Group - A

Answer any *five* questions : $2 \times 5 = 10$

1. Define Probability Density Functions.
2. What are the characteristics of Binomial distribution?
3. Differentiate between parameters and statistics.
4. Why the product moment method of Karl Pearson is called least square method?
5. What is Principal Component Analysis?
6. What is the significance of sampling proportions in statistical testing?
7. What is the role of standard deviation in a normal distribution?
8. What is the role of autocorrelation in time series analysis?

Group - B

Answer any *four* questions : $5 \times 4 = 20$

9. Discuss the major properties of a Standard Normal Curve with proper illustration.
10. Explain the applications of Poisson distribution in geographical analysis. Give examples.

P.T.O.

11. Elucidate different types of correlation with suitable examples.
12. Write a short note on the difference between Correlation and Regression.
13. Write the importance of Time Series analysis in geographical study.
14. "The Spearman's rank correlation is called non-parametric correlation" — Justify the statement.

Group - C

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

15. Briefly describe the principles of selecting suitable methods of probability sampling based on the nature of the population.
16. Write short note on the application of multi-variate analysis in geographic study.