

Total Pages : 4

B.Sc./4th Sem (H)/GEOG/23(CBCS)

2023

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 from the following :  $2 \times 5 = 10$

1. Distinguish between open ended and close ended questionnaire.
2. Differentiate between primary data and secondary data.
3. What is Research Gap?
4. What is research design?
5. What is research problem?
6. Write a short note on foot note.

P.T.O.

7. What is literature review?

8. What is research ethics?

( 2 )



**Group - B**

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

9. Analyse the techniques of qualitative data analysis.
10. What are the features of good research questions?
11. Mention the importance of research ethics in Geographic enquiry.
12. Distinguish between reference and bibliography.
13. Analyse the importance of inventories.
14. Discuss the methods of writing referencing and citation in research.

**Group - C**

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

15. Discuss the structure of research report.
16. Discuss the methods of primary data collection.

( 3 )  
OR



**[Advanced Spatial Statistical Techniques]**

**Group - A**

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

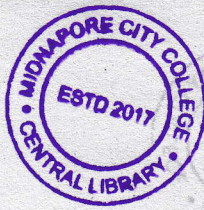
1. Name any two statistical software package used in geographical research.
2. What do you mean by moving average?
3. How are univariate, bivariate and multivariate analysis different to each other?
4. Distinguish between spatial and non-spatial data.
5. What is heteroskedasticity?
6. What is probability density function?
7. Define coefficient of determination.
8. When is rank correlation applied?

**Group - B**

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

9. Distinguish between correlation and regression. 5
10. What do you understand by time series analysis? 5  
Mention applications of time-series analyses in geography. 1+4

P.T.O.



( 4 )

11. Briefly explain the addition and multiplication probability rules with the help of Venn diagrams. 5
12. Highlight the properties of Pearson's product moment correlation coefficient. Why is it called a product moment correlation? 4+1
13. Give a brief note on binomial probability distribution. What is Binomial coefficient? 4+1
14. Elucidate explained and unexplained variance with reference to linear regression equation. 5

### Group - C

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

15. What is normal curve? Mention the properties of a standard normal curve. Highlight applications of Poisson distribution in geography. 2+6+2
16. Define sampling. State the probabilistic sampling techniques with suitable examples. 2+8