

2019

**B.Sc. (Hons.)**

**4th Semester Examination**

**GEOGRAPHY (Hons.)**

**Paper—SEC-2T**

**Research Methods**

Full Marks : 40

Time : 2 Hours

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

**Group-A**

Answer all questions from the  
following

5×2=10

1. Define the term Geographical Enquiry.
2. Mention two difference between bibliography and reference ?
3. What is "Hypothesis in research?"
4. What is the necessity of data editing in research ?
5. Write a short note on 'citation'.

**Group-B**

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

6. What are the steps of preparing a sample questionnaire ?
7. Explain different methods of primary data collection with example.
8. Explain the role of literature review in a research.
9. Explain the purpose of the literature Review.
10. Mention the objectives of references and bibliography in research work.

**Group-C**

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

11. Illustrate different types and sources of data with example.
12. How a research report is prepared ? What should be its structure ?

## Advanced Spatial Statistical Techniques

### Group-A

Answer all questions from the following 5×2=10

1. Distinguish between Positive and Negative correlation.
2. What do you mean by Areal Random Sampling ?
3. What is trend line ?
4. What do you mean by spatial and non-spatial data ?
5. What is normal curve ?

### Group-B

Answer any *four* questions from the following 4×5=20

6. How do you characterise the Binomial and Normal Probability distribution ?
7. Differentiate between Random Sampling and Stratified Sampling techniques.
8. State the advantages and disadvantages of Regression Analysis.
9. *What do you mean by residual from regression? What are positive and negative residuals ?*

10. Discuss the geographical application of poisson distribution citing examples.
11. What is 'sampling plan' ? What it is required ?

**Group-C**

Answer any *one* question from the following

1×10=10

12. What is regression ? How does it help us in studying the co-rrelation between two variables ? Differentiate between Product Moment and Rank co-rrelation co-efficient. 3+3+4=10
13. What is the meaning of Time Series Analysis ? Explain the necessity of analysing time series data. Describe the various components of time series. 3+3+4=10
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