

**M. Sc. 1st Semester Examination, 2024**

**REMOTE SENSING AND GIS**

*(Digital Cartography)*

PAPER — RSG-104

*Full Marks : 25*

*Time : 1 hour*

Answer **all** questions

*The figures in the right hand margin indicate marks*

*Candidates are required to give their answers in  
their own words as far as practicable*

Illustrate the answers wherever necessary

**GROUP—A**

Answer any **two** questions from the following :  
2 × 2

1. How do different map scales affect the interpretation and usability of maps ?

( Turn Over )

2. What do you mean by discrete and continuous data ?
3. What is dasymetric mapping technique ?
4. What types of mapping techniques would you use for representing soil type and soil pH ?

**GROUP—B**

Answer any **two** questions from the following :  
4 × 2

5. Discuss the advantages of digital cartography compared to conventional cartographic techniques.
6. Write a short note on various techniques of map generalization.
7. Compare the characteristics of LCC and UTM projection systems.

( 3 )

8. What is multivariate mapping and what advantages does it offer in data representation and analysis ?

**GROUP – C**

Answer any **one** question from the following :  
8 × 1

9. Explain the different types of measurement scales in geographic variables with examples. Critically compare qualitative and quantitative data in terms of their applicability in GIS analysis. 5 + 3
10. Analyze the role of cartographic design and visual variables in enhancing the effectiveness of digital maps. Briefly mention the applications of isarithmic mapping in GIS. 5 + 3

**[ Internal Assessment – 05 Marks ]**

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