

M.Sc. 2nd Semester Examination, 2025

REMOTE SENSING AND GIS

(Advanced GIS Data Analysis)

PAPER – RSG-206

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 : 2 × 2

1. What is uncertainty in GIS data ?

(Turn Over)

2. Define topological data structure.
3. Mention one source of error due to natural variation in GIS data.
4. Define run-length coding.

GROUP-B

Answer any two questions : 4×2

5. What is positional accuracy ? How is it evaluated in GIS ?
6. Define Buffer and sketch different types of Buffer.
7. Write a short note on the relational database model with a diagram.
8. Compare the Spaghetti model and Topological model of GIS data storage.

(3)

GROUP—C

Answer any one question : 8 × 1

- 9. Explain the three main types of database models—hierarchical, network, and relational —with examples and comparisons. 4 + 4**
- 10. Explain the concept of logical consistency. How is it maintained in a GIS database ? 4 + 4**

[Internal Assessment — 5 Marks]

