PG/IIS/RSG/207/25

M.Sc. 2nd Semester Examination, 2025

REMOTE SENSING AND GIS

(Modelling Spatial Database & Analysis)

PAPER — RSG-207

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** from the following questions :

2×2

1. What is spatial modelling ?

2. What are the importance of Network analysis ?

3. What does the term Geocoding refer to ?

4. What is meant by Raster Math ?

GROUP—B

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

4×2

5. Write a short note on spatial interpolation with example.

6. Compare between DSM, DTM and DEM with neat sketches.

7. Draw a distinction between three types of Geo-databases used in GIS.

8. Give a short overview on overlay operation with suitable diagram.

(*Continued*)

(**3**)

GROUP—C

Answer any **one** from the following question :

8 × 1

9. Discuss four types of map algebra with neat sketches.

10. Explain various categories of spatial queries based on their spatial relationships with examples.

[Internal Assessment — 5 Marks]

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