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GIE 457

Second Semester M.Sc. Degree Examination, September/October 2022
GEOINFORMATICS
Geoinformatics (Open Elective)

Time : 3 Hours

Max. Marks : 70

I. Define **any five** of the following :

(5×2=10)

- 1) Conjugate principle point.
- 2) Spatial data.
- 3) Neighbourhood.
- 4) RADAR.
- 5) Scale of Photography.
- 6) Histogram equalization.
- 7) Metadata.

II. Write short notes on **any five** of the following :

(5×4=20)

- 8) Sources of spatial data.
- 9) Significance of Remote sensing.
- 10) Black body Radiations law.
- 11) Map Projection and parameters.
- 12) Microwave sensors.
- 13) Indian Remote Sensing Satellites.
- 14) Types of aerial photography.

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III. Answer **any four** of the following :

(4×5=20)

- 15) How visual Interpretation keys used in Aerial Photography ?
- 16) Explain the types of sensors and their properties.
- 17) Discuss the digital image analysis techniques.
- 18) Explain the applications of Microwave Remote Sensing.
- 19) Write a note on difference between spatial and non spatial data.

IV. Essay type questions :

(2×10=20)

- 20) Describe the different spatial data modeling and add a note on advantages of raster and vector data models.

OR

Write a detailed note on relational and hierarchical data models.

- 21) Discuss the applications of thermal remote sensing and Hyperspectral remote sensing.

OR

Write detailed note on advantages of RAR and SAR.
