M. SC. (GEOINFORMATICS)
(MSCGI)
Term-End Examination
June, 2025

MGY-009 : ADVANCES IN REMOTE SENSING AND GIS

Time : 2 Hours   *Maximum Marks : 50*

Note : *All questions are compulsory. Questions have internal choices. The marks of each question are indicated against it.*

1. Write short notes on any *four* of the following :   4×5=20

    (a) Radiometric calibration and atmospheric correction of multispectral images

    (b) K-nearest neighbours

(c) Object based image analysis and its types

(d) Indian geospatial standards

(e) Components of SDI

(f) Applications of LiDAR data

(g) Components of location based services

2. (a) Discuss in detail trends in microwave data preprocessing. Add a note on limitations of microwave data. 8+2

Or

(b) What is hyperspectral cube ? Describe the steps involved in hyperspectral data processing. 2+8

3. (a) What is cloud based data processing ? Explain software as a service. 2+8

Or

(b) What is National Geospatial Policy, 2022 ? Discuss its components. 2+8

4. (a) What are Web GIS and IoT ? Explain
their integration giving examples.   10

Or

(b) Give   an   overview   of   role   of
programming languages in geospatial
analysis.   10

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