

**M. SC. IN GEOINFORMATICS
(MSCGI)**

Term-End Examination

December, 2024

**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) Application of multispectral data
- (b) Trends in microwave data pre-processing
- (c) Expert system
- (d) Recent trends in Web GIS and IoT

- (e) GIS customisation
 - (f) Indian NSDI
 - (g) National Geospatial Policy, 2022
2. (a) Discuss in detail the steps involved in the processing of hyperspectral data. 10

Or

- (b) What is point cloud ? Discuss the process of thematic information extraction from LiDAR data. 2+8
3. (a) What is object based image analysis ? Explain the steps involved in it. 2+8

Or

- (b) Define location based services. Discuss its various applications giving suitable examples. 10
4. (a) What do you understand by spatial analysis ? Explain its point and areal patterns analysis in detail. 2+8

Or

- (b) Discuss Open Geospatial Consortium Processes. Describe the stages involved in the development process for ISO standards. 5+5

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