

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

**Term-End Examination**

**December, 2025**

**MGY-011 : GEOENVIRONMENTAL  
APPLICATIONS OF GEOINFORMATICS**

*Time : 2 Hours*

*Maximum Marks : 50*

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**Note :** (i) *All questions are compulsory.*

(ii) *The marks for each question are indicated against it.*

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1. Write short notes on any *four* of the following : 4×5=20
- (a) Geoinformatics in coral reef studies
  - (b) Recent developments in mapping geological structures using remote sensing
  - (c) Digital Terrain Analysis
  - (d) Marine Protected Areas (MPAs)

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- (e) Mapping and monitoring atmospheric parameters
  - (f) Coastal vulnerability assessment
  - (g) Corridor analysis
2. Discuss the applications of remote sensing in land degradation studies. 10

*Or*

Describe the applications of microwave remote sensing in lithological mapping.

3. Discuss the data and methods useful for mapping terrestrial and aquatic habitats giving suitable examples. 10

*Or*

Write in detail about the ocean colour applications.

4. Give an overview of watershed mapping and related applications. 10

*Or*

Discuss the applications of geoinformatics in urban sprawl studies.

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