

M. SC. (GEOINFORMATICS)

(MSCGI)

Term-End Examination

June, 2025

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

Time : 2 Hours

Maximum Marks : 50

Note : *All questions are compulsory. The marks for each question are indicated against it.*

1. Write short notes on any *four* of the following : 4×5=20
 - (a) Mangrove Ecosystem
 - (b) Urban Heat Islands (UHIs)
 - (c) Mapping and monitoring urban sprawl
 - (d) Coastal Regulation Zone (CRZ)
 - (e) Landform mapping using remote sensing data
 - (f) Mapping geological structures
 - (g) Marine Protected Areas (MPAs)

[2]

2. (a) Discuss the data and methods useful for mapping potential groundwater zones.

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Or

- (b) Explain the various water quality parameters that can be derived using remote sensing data.
3. (a) Discuss the recent developments in the field of ecological applications of geoinformatics giving suitable examples.

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Or

- (b) Give an overview of various vulnerabilities associated with coastal areas. Discuss the major steps involved in a coastal vulnerability assessment study.
4. (a) Discuss the recent developments in the field of atmospheric applications.

5+5

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Or

- (b) Explain the methodologies used for mapping lakes and wetlands giving suitable examples.

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