

M. SC. (GEOINFORMATICS)

(MSCGI)

Term-End Examination

June, 2026

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

Time : 2 Hours

Maximum Marks : 50

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

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

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

(a) Urban Heat Islands

(b) Remote sensing data for LULC mapping

(c) Ecologically sensitive coastal ecosystems

- (d) Basic requirements for developing a model
 - (e) Factors or parameters considered for groundwater potential zone mapping
 - (f) Digital terrain analysis
2. (a) Discuss the data considerations for lithological and mineralogical mapping.

10

Or

- (b) Discuss the role of geoinformatics in mapping of mangroves.
3. (a) Discuss the remote sensing based methods for mapping inland water. 10

Or

- (b) What is land surface temperature ? Explain the need to map and monitor land surface temperature. Discuss the recent developments in the field of urban applications.

4. (a) Discuss the data considerations for mapping geological structures. Elaborate on the recent developments in mapping geological structures. 10

Or

- (b) Discuss the role of geoinformatics in the study of aquatic habitats.

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