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MGY-014

M. Sc. (GEOINFORMATICS) (MSCGI)

Term-End Examination

December, 2025

**MGY-014 : GEOINFORMATICS IN NATURAL
RESOURCES AND ENVIRONMENTAL STUDIES**

Time : 2 Hours

Maximum Marks : 50

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

1. Write notes on any **four** for the following :

4×5=20

- (a) Types of water resources.
- (b) GIS in soil resources studies.
- (c) Geoinformatics in environmental studies.
- (d) Issues in water availability.
- (e) Biodiversity Hotspots.
- (f) Principles of environmental management.
- (g) Geoinformatics in landscape dynamics.

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2. (a) Discuss the diverse dimensions of sustainability giving suitable examples.

10

Or

- (b) What is GEOAI ? Discuss the role of GEOAI in hyperspectral data analysis in mineral resource prospecting.

10

3. (i) (a) Discuss different types of biomes giving suitable examples.

5

- (b) Explain the scope of environmental management.

5

Or

- (ii) (a) Explain the issues and challenges faced by the biota with special reference to India.

5

- (b) Discuss the measures to prevent land degradation.

5

4. (a) Discuss the salient features of water resource management.

10

Or

- (b) Discuss the scheme of classification of forest cover and types of forests found in India.

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