

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

**Term-End Examination**

**June, 2026**

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

*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 notes on any *four* of the following :

4×5=20

- (a) Development of surface water resources
- (b) Remote sensing in soil resources studies
- (c) Types of natural resources
- (d) Environmental Impact Assessment

- (e) Water availability issues
  - (f) Sustainable development goals
  - (g) Geoinformatics in forest ecosystem studies
2. (a) (i) Discuss the significance of biodiversity on the planet earth. 5
- (ii) Describe the image processing software useful in soil resources studies. 5
- Or*
- (b) (i) How would you measure the parameters for assessing species diversity ? 5
- (ii) Explain the dimensions of sustainability. 5
3. (a) Elaborate the role of GEOAI in hyperspectral data analysis for mineral resource prospecting. 10

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*Or*

- (b) Discuss the applications of geoinformatics in the assessment of water resources. 10
4. (a) Discuss the physical and structural divisions of the India. 10

*Or*

- (b) What is soil salinity ? Explain the salient features related to mapping soil degradation due to soil salinity. 10

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