

No. of Printed Pages : 3

**MGY-007**

**POST GRADUATE DIPLOMA IN  
GEOINFORMATICS/  
M. SC. (GEOINFORMATICS)**

**(PGDGI/MSCGI)**

**Term-End Examination**

**December, 2025**

**MGY-007 : APPLICATIONS OF  
GEOINFORMATICS**

*Time : 2 Hours*

*Maximum Marks : 50*

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**Note :** *All questions are compulsory. 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) Normalised Difference Vegetation Index

- (b) Geological hazards
  - (c) Causes and impacts of forest fire
  - (d) Cropping System Analysis
  - (e) Border Surveillance
  - (f) Aeolian landforms
2. Describe the variation in spectral signatures of plants caused due to type of vegetation, phenology and seasonality. 10

*Or*

Explain briefly the factors governing the spectral properties of water.

3. Discuss the role of geoinformatics in climate change studies. 10

*Or*

Describe any *five* fluvial landforms with the help of neat well-labelled diagrams.

4. Discuss the factors affecting the broad categories of land cover features and their typical spectral characteristics. 10

*Or*

Explain briefly the estimation of soil moisture using remote sensing. Add a note on advantages and constraints of remote sensing methods for measurement and monitoring of soil moisture.

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