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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

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

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

(a) Normalised Difference Vegetation Index

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- (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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