

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

Term-End Examination

June, 2026

**MGY-007 : 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) Diversity in plant structure

(b) Geoinformatics in land degradation studies

- (c) Soil texture
 - (d) Net primary productivity
 - (e) Causes and impacts of Tsunami
 - (f) Sources of pollution
 - (g) Challenges in E-governance
2. (a) Describe the leaf pigments and their spectral signatures. 10

Or

- (b) Briefly discuss the inherent and apparent optical properties of water. 10
3. (a) Briefly describe the classification of landforms. 10

Or

- (b) Explain the need for estimation of land use and land cover change. Add a note on spectral signatures of land cover features. 5+5
4. (a) Discuss the role of geoinformatics during pre-disaster phase. 5
- (b) Explain the causes and impacts of forest fire. 5

[3]

Or

- (a) Describe the sources of meteorological data products and techniques for cyclone monitoring and warning. 5
- (b) Discuss the role of spatial analysis in disease surveillance. 5

x x x x x