

**POST GRADUATE DIPLOMA IN
GEOINFORMATICS (PGDGI)**

Term-End Examination

December, 2024

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) GIS in route planning
- (b) Geoinformatics in crop acreage estimation
- (c) Fluvial landforms
- (d) Forest type mapping
- (e) Types of landslides
- (f) Soil profile

2. (a) Explain in detail the relation between soil texture and moisture content with emphasis on their effect on spectral signature of soil. 10

Or

- (b) What is landuse/land cover ? Discuss the need for estimation of landuse/land cover change. 10

3. (a) Describe the factors affecting spectral signature of vegetation. 10

Or

- (b) What are the causes of coal fire ? Elaborate the role of geoinformatics in coal fire related studies. 10

4. (a) Discuss the optical classification schemes of inland and coastal waters. 10

Or

- (b) Discuss the application of geoinformatics in glacial outburst lake monitoring and management with examples. 10

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