POST GRADUATE DIPLOMA IN GEOINFORMATICS (PGDGI)

Term-End Examination December, 2024

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Time: 2 Hours Maximum Marks: 50

MGY-007: APPLICATIONS OF GEOINFORMATICS

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

1. Write short notes an any *four* of the following :

 $4 \times 5 = 20$

- (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

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

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.

Or

- (b) What are the causes of coal fire? Elaborate the role of geoinformatics in coal fire related studies.
- 4. (a) Discuss the optical classification schemes of inland and coastal waters.

Or

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

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