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MGY-006

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

Term-End Examination

June, 2025

**MGY-006 : SPATIAL ANALYSIS AND
MODELLING**

Time : 2 Hours

Maximum Marks : 50

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

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

4×5=20

(a) GIS Integration

- (b) Geostatistics—tools and techniques
- (c) Output functions
- (d) Neighbourhood operations
- (e) Path analysis
- (f) MCDM Methods

2. What is a Database Management System (DBMS) ? Discuss the characteristics of a good DBMS. 10

Or

Discuss the applications of network analysis used in GIS-based projects.

3. Discuss the 3-dimensional representation of vector data. 10

Or

Discuss the methods of overlay analysis.

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4. What is watershed analysis ? Discuss the steps for delineation of a watershed. 10

Or

Discuss how cost distance analysis is performed with suitable examples.

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