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MGY-006

POST GRADUATE DIPLOMA IN

GEOINFORMATICS/

M. SC. (GEOINFORMATICS)

(PGDGI/MSCGI)

Term-End Examination

December, 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) Database modelling

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- (b) Proximity analysis and buffering
 - (c) Local operations
 - (d) Network analysis
 - (e) Viewshed analysis
 - (f) Fuzzy operators
2. Describe the software and hardware considerations in RS and GIS integration. 10

Or

Discuss the basic concept and the key elements of multicriteria analysis.

3. Discuss the Euclidean and Manhattan distance methods used in spatial distance measurement. 10

Or

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

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4. Explain the tools used in feature manipulation operations with the help of neat diagrams. 10

Or

Discuss in detail the tools and techniques used in Geostatistics.

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