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MGY-006

**M. SC. GEOINFORMATICS
(MSCGI)**

Term-End Examination

December, 2023

MGY-006 : SPATIAL ANALYSIS AND MODELLING

Time : 2 Hours

Maximum Marks : 50

Note : (i) *All questions are compulsory.*

(ii) *Marks of each question are indicated against it.*

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

4×5=20

- (a) GIS for space-time modeling
- (b) Watershed analysis
- (c) Hardware requirements for a GIS lab
- (d) GIS project planning
- (e) Methods of local operations in raster analysis
- (f) Scope of python programming in GIS

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2. (a) What is data integration ? Discuss the methods of integration of remote sensing and GIS. 10

Or

- (b) What is path analysis ? Discuss the different methods of network analysis.

3. (a) Discuss buffering and different types of buffers with neat diagrams. 10

Or

- (b) What is spatial data mining ? Discuss techniques of spatial data mining.

4. (a) Explain 3D data representation in detail. 10

Or

- (b) Discuss in detail about the geostatistical tools and techniques.