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MGY-006

M. SC. GEOINFORMATICS (MSCGI)

Term-End Examination

June, 2024

MGY-006 : SPATIAL ANALYSIS AND MODELLING

Time : 2 Hours

Maximum Marks : 50

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

(ii) *The marks for each question are indicated against it.*

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

4×5=20

- (a) Applications of Network Analysis in GIS
- (b) Surface Modelling
- (c) Feature Manipulation
- (d) Spatial Distance Measurement
- (e) GIS Project Management
- (f) GIS programming

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2. (a) What is Data Mining ? Discuss the steps involved in data mining process. 10

Or

- (b) Discuss the stages and methods of remote sensing and GIS data integration.

3. (a) Discuss the methods of neighbourhood operations in raster analysis and its applications. 10

Or

- (b) What is spatial interpolation ? Describe the techniques of spatial interpolation.

4. (a) Write a note on viewshed analysis. Also discuss the various applications of viewshed analysis. 10

Or

- (b) Discuss the different vector overlay analysis methods with the help of neat diagrams.

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