

**POST GRADUATE CERTIFICATE IN
GEOINFORMATICS (PGCGI)**

Term-End Examination

December, 2024

**MGY-003 : GLOBAL NAVIGATION SATELLITE
SYSTEM AND GEOGRAPHIC
INFORMATION SYSTEM**

Time : 2 Hours

Maximum Marks : 50

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

(ii) *Internal choices are given in question no. 2 to 4.*

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

1. (a) Discuss the sources of errors of DGPS. 5

(b) What are the organisational aspects of GIS ?
5

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

4×5=20

(a) Spiral GIS design model

(b) Types of GIS outputs

(c) Spatial elements

- (d) Methods of raster data input
 - (e) Network modelling
 - (f) Raster to vector data conversion
3. (a) Define GIS database. Discuss the types of database. List the steps involved in the creation of GIS database. 10

Or

- (b) What are raster and vector GIS models ? Add a note on the advantages and disadvantages of raster and vector data models. 5+5
4. (a) What do you understand by data quality ? Explain in detail the various components of data quality. 10

Or

- (b) Discuss the principles of GPS operations. 10

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