

No. of Printed Pages : 3

**MGY-103**

**POST GRADUATE DIPLOMA IN**

**GEOINFORMATICS/M. SC.**

**(GEOINFORMATICS)**

**(PGDGI/MSCGI)**

**Term-End Examination**

**June, 2025**

**MGY-103 : GLOBAL NAVIGATION SATELLITE  
SYSTEM AND GEOGRAPHICAL INFORMATION  
SYSTEM**

*Time : 2 Hours*

*Maximum Marks : 50*

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**Note :** *All questions are compulsory. Question Nos. 2 to 4 have internal choices. The marks for each question are indicated against it.*

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**B-1493/MGY-103**

**P. T. O.**

1. Write short notes on any *four* of the following : 4×5=20

- (a) Trilateration
- (b) Applications of GIS
- (c) Geocoding and Geotagging
- (d) Advantages and disadvantages of vector data
- (e) Types of geodatabase
- (f) Devices used for vector data input

2. (a) Discuss the *three* segments of GNSS.  
List the applications of GNSS. 10

*Or*

- (b) What is data quality ? Discuss the components of data quality.
3. (a) Discuss the key components of GIS. 10

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*Or*

(b) What are spatial data standards ?

Discuss the Topologically Integrated Geographic Encoding and Referencing (TIGER) model and write its advantages and disadvantages.

4. (a) Explain the various methods of *in-situ* data collections. 10

*Or*

(b) Describe in brief *two* methods of overlay operations.

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