

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

Term-End Examination

December, 2018

00702

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

Time : 2 hours

Maximum Marks : 50

Note : *All questions are compulsory. Internal choices are given in questions no. 2 to 4. The marks for each question are indicated against it.*

1. Answer **all** parts :

(a) Fill in the blank spaces with appropriate word(s) : 3×1=3

(i) The word LORAN stands for _____.

(ii) GPS, GLONASS and GALILEO are examples of _____.

(iii) The word TIGER stands for _____.

(b) State whether the following statements are *True (T)* or *False (F)* : 3×1=3

(i) A point-in-polygon operation is a key feature of GIS analysis.

(ii) Relational, Network and Hierarchical are examples of non-spatial data query.

(iii) Spatial Decision Support System is a synthesis of GIS and decision support system.

(c) Match the items given in Column A with those given in Column B : 4×1=4

Column A

Column B

(i) Geodesy

(1) International metadata standard

(ii) ISO 19115

(2) Spatial discipline

(iii) Latitudes and Longitudes

(3) GIS software

(iv) GRASS

(4) Line symbols

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

- (a) Data Quality Issues
- (b) Data Integration
- (c) Data and Information
- (d) Advantage and Disadvantages of Vector Data
- (e) Types of GPS Receivers
- (f) Non-Cartographic Output
- (g) Georeferencing

3. Explain raster analysis operations. 10

OR

Illustrate different sources of error in GPS observations. 10

4. Describe any four data conversion methods in GIS. 10

OR

Explain different types of database models in GIS. Draw figures wherever required. 10