

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

Term-End Examination

00622

December, 2014

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

Time : 2 hours

Maximum Marks : 50

*Note : All questions are **compulsory**. Marks for each question are indicated against it.*

1. Answer *all* parts :

- (a) Fill in the blank spaces with appropriate word(s) : *4×1=4*
- (i) The word 'PPS' is an abbreviation of _____ .
- (ii) The word 'GRASS' stands for _____ .
- (iii) The word 'SDSS' stands for _____ .
- (iv) 'RMSE' stands for _____ .

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

(i) Interpolation is a method of creating new spatial data from existing sample data.

(ii) Scanning is the process of connecting paper maps or drawing into a form which cannot be stored into electronic storage devices.

(iii) DEM is an example of non-cartographic map model.

(c) Match the items given in Column A with those in Column B : 3×1=3

Column A

Column B

(i) TIGER (1) Data Structure

(ii) Spiral Model (2) GNSS

(iii) Elevation (3) GIS design

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

(a) GPS segments

(b) Organisational aspects of GIS

(c) Hierarchical and Relational database models

(d) Non-cartographic GIS outputs

(e) Data quality

(f) Topological Modelling

3. (a) Describe the applications of GPS in any five areas with illustrations, wherever necessary. 10

OR

- (b) Give a comparative account of various GIS data models. 10

4. (a) Discuss the different data conversion methods in GIS. Also explain data integration. 10

OR

- (b) What do you understand by spatial analysis ? Discuss in detail the various methods of spatial analysis suitable for raster data with illustrations, wherever required. 10
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