

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

Term-End Examination

00586

June, 2016

**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). $4 \times 1 = 4$

(i) _____ is an indigenous GPS aided geo-augmented navigation system.

(ii) The abbreviation 'DGPS' stands for _____.

(iii) The word 'DBMS' stands for _____.

(iv) _____ is the data about data.

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

- (i) Hierarchical model organises data as a tree-like structure.
- (ii) Topological modelling comprises a set of functions which are used to process spatial and non-spatial data in order to facilitate the decision-making processes in GIS environment.
- (iii) Maps are the only final output product of the GIS platform.

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

<i>Column A</i>	<i>Column B</i>
(i) Structured query language	(1) Managing and organising views
(ii) Topological error	(2) Relational database
(iii) GIS information product	(3) Unclosed polygon

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

- (a) Spatial and Non-spatial Database
- (b) Georeferencing
- (c) Errors in GPS Observation
- (d) Raster Analysis
- (e) Data Conversion Methods
- (f) Vector Data Structure

3. Attempt any *one* part :

- (a) What is GPS ? Explain in detail the area where GPS technology is used. 10
- (b) What do you mean by GIS modelling ? Discuss topological and surface modelling with suitable illustrations. 10

4. Attempt any *one* part :

- (a) Give an account of various components of GIS. 10
 - (b) What is GIS output ? Discuss different types of GIS outputs. 10
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