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MGY-003

POST GRADUATE CERTIFICATE IN GEOINFORMATICS (PGCGI)

Term-End Examination

00554

June, 2018

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 of the following :

(a) Fill in the blank spaces with appropriate word(s) : *4×1=4*

(i) GPS receiver uses the concept of _____ to determine its position on the Earth's surface.

(ii) GAGAN is the navigation satellite system of _____ country.

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

(iv) _____ data describes attributes of the geographic features.

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

(i) GPS technology offers a solution for all survey tasks.

(ii) Analog data needs to be converted into digital format before using it in any GIS platform.

(iii) Vertical data integration is a process of merging spatial data of all the adjacent areas.

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

Column A	*Column B*
(i) GIS design	(1) Focal operation
(ii) Raster analysis	(2) Location interconnected with routes and lines
(iii) Network modelling	(3) Waterfall model

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

(a) GPS Survey

(b) Geospatial Data Input

(c) Components of GIS

(d) Differential GPS

(e) Data Quality

(f) Raster Analysis

3. What is GPS ? Give a comparative account of various principles of GPS operation. *10*

OR

Discuss in detail, data conversion methods in GIS. *10*

4. What are GIS data models ? Explain raster and vector data models. *10*

OR

Give a brief account of various types of GIS outputs with suitable examples. *10*