No. of Printed Pages : 3

MGY-003

POST GRADUATE CERTIFICATE IN GEOINFORMATICS (PGCGI)

Term-End Examination

00168

June, 2015

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

Time : 2 hours

Maximum Marks : 50

Note : All questions are **compulsory**. The 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) The word 'RTK' stands for
 - (ii) The word 'TIGER' is an abbreviation of _____.
 - (iii) The word 'DGPS' stands for _____.
 - (iv) 'DLG' stands for _____

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P.T.O.

- (b) State if the following statements are True(T) or False(F): $3 \times 1=3$
 - (i) Zonal operations do not perform operations on zones of contiguous blocks of pixels. (True/False)
 - (ii) Data structure is the format of the data as stored and manipulated on computer. (True/False)
 - (iii) Topology is the organisation of spatial relationships between features in a GIS. (True/False)
- (c) Match the items given in Column A with those in Column B : $3 \times 1=3$

	Column A		Column B
(i)	Line-in-polygon	(1)	Overlay
(ii)	Spaghetti	(2)	GNSS
(iii)	Speed	(3)	Vector data model

- 2. Write short notes on any *four* of the following: 4×5=20
 - (a) Any five sources of error in GPS observations
 - (b) Spatial data structure
 - (c) Overlay analysis
 - (d) Geospatial data input
 - (e) GPS signal structure
 - (f) Raster to Vector data conversion

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3. (a) Discuss in detail the GPS survey planning and procedures.

OR

- (b) What is GIS ? Describe in detail its components with suitable illustrations, wherever required.
- (a) What do you understand by data quality in the context of GIS ? Explain the components of data quality.

OR

(b)

4.

Discuss in detail the approaches and models of GIS project design.

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