# POST GRADUATE CERTIFICATE IN GEOINFORMATICS (PGCGI)

### **Term-End Examination**

01122

December, 2017

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

Time : 2	hours	Maximum Marks : 50						
<b>Note:</b> All questions are <b>compulsory</b> . The marks for each question are indicated against it.								
1. Ansv	ver a	$oldsymbol{\mathcal{U}}$ parts of the following :						
(a)		in the blank spaces with appropriate $d(s)$ . $4\times 1=4$						
	(i)	The abbreviation GAGAN stands for						
	(ii)	The orbiting satellites transmitting radio-navigation signals are referred to as segment of GPS.						
	(iii)	Points, lines and polygons are discrete features represented by data model.						
	(iv)	is data about data.						
MGY-003		1 Р.Т.О.						

- (b) State whether the following statements are True(T) or False(F):  $3\times 1=3$ 
  - (i) GRASS is a free and open source GIS software.
  - (ii) Surface modelling represents the Earth's surface in digital form by taking information of latitude, longitude and altitude.
  - (iii) The integration of spatial and non-spatial data is not required for analysing any data in a GIS platform.
  - (c) Match the items given in Column A with those given in Column B:  $3\times 1=3$

#### Column A

#### Column B

- (i) Hierarchical model
- (1) Non-cartographic output
- (ii) Shaded relief map
- (2) Proximity analysis
- (iii) Buffer operation
- (3) Organising data in a tree-like structure

<b>2.</b>	Write short notes on any <b>four</b> of the following: $4 \times 5 =$									
	(a)	GLONAS	SS							
	(b)	GPS Seg	ments							
	<ul><li>(c) Database Management System</li><li>(d) Data Quality</li></ul>									
	(e) Cartographic GIS Outputs									
	<b>(f)</b>	Georefer	encing							
3.	Discuss in detail the applications of GPS in any five fields giving suitable examples.									
				OR						
	Define GIS models. Describe network and surface modelling in GIS.									
4.	What is GIS? Explain in detail the components and organisational aspects of GIS.								10	
				OR						
		uss the gn with su	•		_	models	of	GIS	10	

3

