## POST GRADUATE CERTIFICATE IN GEOINFORMATICS (PGCGI)

## **Term-End Examination**

June, 2017

## 00372

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

Time : 2 h	ours		Maximum Marks : 50					
<b>Note:</b> All questions are <b>compulsory</b> . Internal choices are given in questions no. 2 to 4. The marks for each question are indicated against it.								
1. Answ	ver <b>a</b>	<i>ll</i> parts :						
(a)	Fill	in the blank	spaces with app	propriate				
		$\mathbf{d}(\mathbf{s})$ .		4×1=4				
	(i)	is kno	own as data abou	ıt data.				
	(ii)	GRASS stand	s for	_·				
•	(iii)	The word LO	RAN stands for _	·				
	(iv)	DTM stands f	or					
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- (b) State if the following statements are True(T) or False(F):  $3\times 1=3$ 
  - (i) The fundamental equation of satellite navigation is

Distance = Velocity of light × Travel
Time of the satellite signal

- (ii) Shortest Path Model is an example of Topological Network Modelling.
- (iii) Vector Data Model represents the real world in a regular set of cells in grid pattern.
- (c) Match the items given in Column A with those given in Column B:  $3\times 1=3$

Column A

Column B

- (i) Intersection
- (1) Mobile GPS receiver

(ii) Rover

- (2) Overlay process
- (iii) Space segment
- (3) Satellites

2.	Write short notes on any <b>four</b> of the following: $4\times5=20$												
	(a)	Trilatera	tion										
	(b)	Overlay 1	Method	s									
	(c)	Historica	ıl Devel	opme	nt of	GNSS							
	(d)	Shortest Path and Location-Allocation Network Model											
	(e)	Cartographic Outputs											
	(f)	Advantages and Disadvantages of Raster and Vector Data Models											
	(g) People as a Component of GIS												
3.	Explain data integration and its types. Comment on its relevance in GIS.												
		O	R			. •			,				
	(a)	What of Digitizat	•	u ui	nders	tand	by	Мар	5				
	(b)	Distingu Precision		etwe	en	Accura	ıcy	and	5				
4.	Discu	uss the ap		ns of	GPS.				10				
	(a)	What is character		se?	Expla	in its	types	and	5				
	(b)	Write al	oout th	e two	con	nponen	ts of	GIS	5				
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