POST GRADUATE CERTIFICATE IN GEOINFORMATICS (PGCGI)

Term-End Examination June, 2022

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

Tin	ne:2	hours	Maximum Marks : 5	${\it Maximum~Marks}:50$				
No:	g	iven i	estions are compulsory . Internal choices are n questions no. 2 to 4. The marks for each n are indicated against it.					
1.	Ans	wer a i	<i>II</i> parts:					
	(a)	Fill	in the blanks with the appropriate					
		wor	$d(s)$: $3\times 1=$	3				
		(i)	The is an array of uniformly spaced elevation data.					
		(ii)	is a measurement of					
			direction between two points					
			measured clockwise from North.					
		(iii)	is a network of					
			radio-emitting satellites deployed by					
			the US Department of Defense.					

- (b) State whether the following statements are True(T) or False(F): $3\times 1=3$
 - (i) Digital Terrain Model is a land surface represented in digital form by an elevation grid or lists of three-dimensional co-ordinates.
 - (ii) Trilateration is a raster operation.
 - (iii) RINEX and NMEA are the formats of GPS data.
- (c) Match the items given in Column A with those given in Column B: $4\times1=4$

Column A Column B

- (i) Raster data (1) Heights in structure digital format
- (ii) Overlay (2) Quadtree
- (iii) GLONASS (3) Intersection
- (iv) Triangulated (4) Russia Irregular Network

2.	Write	e short	notes	on	any	four	of	the					
	follov	llowing: $4 \times 5 = 20$											
	(a)	GPS Sign	nal Stru	cture)								
	(b)	Compone	ents of (GIS									
	(c)	Spiral GIS Design Model Cartographic Output											
	(d)	Cartogra	iphic Ou	ıtput		onversion							
	(e)	Raster to	vector	Data	Conv	ersion							
	(f)	Types of	Databa	se									
	(g)	Topologi	cal Mod	el									
3.	(a)	What is the steps			•			iefly	5				
	(b)	Explain input. A processe	dd a no	ote o	n the	terms	relat		5				
				OR									
	(a)	Explain of vector				d disad	vant	ages	5				
	(b)	Describe system.	briefly	the s	spatial	decisio	n su	pport	5				

4.	(a)	Discuss briefly any five applications of GPS.						
	(b)	GIS is both a Science and a Technology. Justify.						
		OR						
	(a)	Differentiate between Relational and Hierarchical database models.	E					
	(b)	Explain the sources of errors in GPS observation.	E					