MGY-003

POST GRADUATE CERTIFICATE IN GEOINFORMATICS (PGCGI)

Term-End Examination

June, 2021

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

Time : 2 hours

Maximum Marks : 50

- **Note :** All questions are **compulsory**. Internal choices are given in question nos. 2 to 4. The marks for each question are indicated against it.
- 1. Answer *all* parts :
 - (a) Fill in the blank spaces with appropriate word(s): 4×1=4
 - (i) ______ is a process to bring various GIS data or spatial information together into single platform of coverage, reference system or format.
 - (ii) Errors which occur during data entry and manipulation are known as
 - (iii) Device used for scanning an image and converting it into numerical format is known as ______.

(iv)

land surface represented in digital form by an elevation grid of three-dimensional coordinates.

is a

- (b) State if the following statements are True(T) or False(F): $3 \times 1=3$
 - (i) Fundamental components of spatial data in a GIS are points, lines and polygons.
 - (ii) Precision means closeness between digital database and real world values.
 - (iii) Map projection is a device for representing all or part of a rounded surface on a flat sheet.
- (c) Match the items given in Column A with those given in Column B : $3 \times 1=3$

	Column A		Column B
(i)	Digitiser	(1)	Positional and attribute
(ii)	Data Accuracy	(2)	AutoCAD
(iii)	Drawing Exchange	(3)	Vectorisation
	Format		

MGY-003

2.	Write	short	notes	on	any	four	of	the	
	follow	ving :						4×5=	=20
	(a)	Sources	of errors	s in D	GPS				
	(b)	Applicat	ions of (GPS					
	(c)	Types of	databas	se					
	(d)	Vector d	ata inpu	ıt					
	(e)	Area def	inition a	and co	ontigu	ity			
	(f)	Spatial o	bjects						
	(g)	GIS info	rmation	prod	ucts				
3.	Discu	ss in deta	ail vario	us da	tabas	e model	s.		10
				OR					
	Expla	in the s	segment	s an	d pri	nciples	of (GPS	
	opera	tion, givi	ng figur	es.					10
4.	Discu	ss the ra	aster da	ta st	ructur	e. Drav	var	neat	
	well-l	abelled d	iagram.						10
				OR					

Discuss in detail the five components of GIS. 1
