No. of Printed Pages : 4

POST GRADUATE CERTIFICATE IN **GEOINFORMATICS (PGCGI)**

Term-End Examination

June, 2024

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

Time : 2 Hours

Maximum Marks : 50

Note : (i) All questions are compulsory.

- Internal choices are given in question no (ii)2 to 4.
- (iii) The marks for each question are indicated against it.
- Answer all parts : 1.
 - Fill in the blanks with appropriate word(s) : (a)

 $3 \times 1 = 3$

..... consists of system of tracking (i) stations located around the world like master control and monitor network.

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(ii) creates buffer zone by measuring straight distances from selected features.

[2]

- (iii) is the process of transforming three-dimensional surface of globe or a part of it into two dimension.
- State whether the following statements are (b) True (T) or False (F) : $3 \times 1 = 3$
 - Deterministic model is a type of spatial (i) modelling which gives the known result based on unknown input.
 - (ii) A software package designed to facilitate creation and maintainence of computerised database is called database management system.
 - (iii) Data definition language is used for queries and data modification.
- Match the items given in column A with those (c) in column B : $4 \times 1 = 4$

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	[3]		MGY-003
	Column A		Column B
(i)	Dithering	(1)	Broadcast false
			signal
(ii)	GPS positioning	(2)	Trilateration
(iii)	Multipath effect	(3)	Reflection of
			satellite signal
(iv)	Jam and Spoof	(4)	Digital noise
Write short notes on any <i>four</i> of the following :			

 $4 \times 5 = 20$

(a) Galileo

2.

- (b) Spatial elements
- (c) System life cycle approach
- (d) Georeferencing
- (e) Data consistency
- (f) Types of database
- Explain the concept of topology. Discuss in detail the important components of topology. 2+8=10

MGY-003 [4] Explain the advantages of raster and vector (a) data models. 5 Discuss the types of GPS receiver and data (b) formats. 5+5 What is data integration ? Discuss the types of 4. data integration. 2+8=10Or Describe types of cartographic outputs. (a) 5

(b) Discuss the advantages of GPS over conventional surveying methods. 5
