No. of Printed Pages : 2

MGY-003

POST GRADUATE CERTIFICATE IN GEOINFORMATICS (PGCGI)

Term-End Examination

December, 2019

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

Time : 2 hours		Maximum Marks : 50
Note : (i)	All auestions are commulsory	

ote: (1) All questions are compulsory.

(ii) Internal choices are given in question no. 2 to 4.

(iii) The marks for each question are indicated against it.

1. Answer all parts :

(a) Fill in the blank spaces with appropriate word(s).

- (i) RTK stands for ______ which uses a radio data link to transmit satellite data from Reference to Rover.
- (ii) ______ is an international industry consortium with companies, government agencies and universities participating to develop publicly available open source GIS Software.
- (iii) ______ is the process of transformation of spatial and non-spatial data from one form to another.
- (iv) _____ means the flexible mobility of GIS database in terms of its usage where it can be opened and analysed in any Software by any GIS professional.
- (b) State if the following statements are **True** (**T**) or **False** (**F**) :

3x1=3

4x1 = 4

- (i) Height of instrument (HI) refers to the correct measurement of the distance of the GPS antenna above the reference mounted over which it has been placed.
- Database Management refers to GIS capability to collect, store, analyse and provide access to data.
- (iii) Vector to raster conversion is the process in which entire vector data is converted into an array of cells with corresponding attribute data attached to it.

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P.T.O.

2.	Write	e short notes on any four of the following :	4x 5=20
	(a)	Components of GNSS	
	(b)	Sources of errors in DGPS	
	(c)	Types of database	
	(d)	Georeferencing	
	(e)	Area contiguity	
	(f)	Data accuracy	
	(g)	Data integration	
3.	Elabo to su Discu Give Discu label	orately explain the principle of GPS operation. Draw neat well labelled diagram pport your answer. OR ass the advantages and disadvantages of raster and vector data models. a brief account of the components of GIS design. OR ass in brief the various operations involved in raster data analysis. Give neat w led diagrams wherever required.	ms 10 10 10 rell 10

Match the items in Column - A with those in Column - B :

(1)

(2)

(3)

Column - B

Drum plotter

Shortest path

GRASS

3x1=3

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(c)

(i)

(ii)

Column - A

GIS software

(iii) Hard copy

Network analysis