POST GRADUATE CERTIFICATE IN GEOINFORMATICS (PGCGI)

Term-End Examination

December, 2020

MGY-001 : INTRODUCTION TO GEOINFORMATICS

Time : 2 Hours   *Maximum Marks : 50*

Note : *All questions are compulsory. The marks of each question are indicated against it.*

1. Answer all parts of the following :

    (a) Fill in the blank spaces with appropriate word(s) :   1 each

        (i) .... deals with the study of shape and area of the earth.

        (ii) Cartosat, a satellite of Indian remote sensing series carries .... imaging system.

        (iii) NRSC is an abbreviation of ....

        (iv) Indian national satellites is a series of .... organisation.

(b) State whether the following statements are True (T) or False (F) :   1 each

(i) Remote sensing data is always in the form of raster data.

(ii) ArcGIS is an example of free and open source software, which is useful for processing and analyzing geospatial data.

(iii) Small scale maps are used to represent a small area with detailed information.

(c) Match the items given in Column A with those given in Column B :   1 each

Column A		**Column B**	
(i)	Coastal-oceanic applications	(1)	Surface wind measurements
(ii)	TOMS	(2)	Atmospheric pollutant gases measurements
(iii)	Quick SCAT	(3)	Shoreline mapping and potential fishing zone demarcation

2. Write short notes on any *four* of the following :

5 each

(a) Web GIS

(b) Spatial data and its types

(c) Types of data products

(d) Mercator map projections

(e) Types of maps

(f) Applications of geoinformatics in agriculture

3. What is Geoinformatics ? Briefly describe the components of geoinformatics, giving suitable diagrams wherever required.   10

Or

What are topographical maps ? Discuss in detail the procedure involved in topographical map interpretation.

4. Discuss the COTS + FOSS geospatial software/tools and their functionalities and advantages.   10

Or

Describe applications of geoinformatics technologies in rural and urban planning and infrastructure monitoring with suitable examples.

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