MGY-001

POST GRADUATE CERTIFICATE IN GEOINFORMATICS (PGCGI)

Term-End Examination

June, 2022

MGY-001 : INTRODUCTION TO GEOINFORMATICS

Time : 2 Hours   *Maximum Marks : 50*

__Note__ : *(i)* *All questions are **compulsory**.*

   (ii) *Internal choices are given in question nos. **2** to **4**.*

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

1. Answer all parts :

   (a) Fill in the blanks with appropriate word(s) :   3×1=3

      (i) The real world features are represented as grids in the .... data.

      (ii) NRSC stands for ....

      (iii) GeoTIFF stands for ....

(b) State if the following statements are True (T) *or* False (F) :   3×1=3

(i) A degree map has 4° × 4° latitudinal and longitudinal coverage.

(ii) Agricultural land belongs to the level 1 of LU/LC classification scheme.

(iii) WGS84 comprises a horizontal datum.

(c) Match the items given in Column A with those given in Column B :   4×1=4

Column A		Column B	
(i)	TOMS	(1)	Rainfall
(ii)	TRMM	(2)	Air pollution
(iii)	Vector data	(3)	Agriculture
(iv)	NDVI	(4)	Discrete features

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

4×5=20

(a) Bhuvan

(b) Value added data products

(c) Application of geoinformatics in e-Governance

(d) Map elements

    (e) Applications of geoinformatics in vector borne diseases

    (f) Components of geoinformatics

    (g) Interpretation of cultural features in a topographical map

3. Discuss the trends in Geographic Information System. 10

Or

With the help of suitable diagrams, explain any *two* types of map projections.

4. Elaborate the applications of geoinformatics in disaster management. 10

Or

Compare COTS and FOSS geospatial tools.

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