MGY-001

POST GRADUATE CERTIFICATE IN GEOINFORMATICS (PGCGI)

Term-End Examination

December, 2019

MGY-001 : INTRODUCTION TO GEOINFORMATICS

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).   3x1=3
           (i)   NSDI stands for _____.
           (ii)   LBS stands for _____.
           (iii) _____ is a technique used to determine the geometric properties of objects from their photographs.

     (b)   State if the following statements are True (T) or False (F) :   3x1=3
           (i)   Wall map is an example of small scale map.
           (ii)   Topographical maps of the open series of the Survey of India have been prepared in the Universal Mercator Projection on WGS 84 datum.
           (iii) GRAM^{++} is an indigenous GIS software.

     (c)   Match the items given in Column A with those given in Column B :   4x1=4

Column A		Column B
(i)	Landuse	(1) Volcanic activity detection
(ii)	MODIS Thermal Alert System	(2) Cloud coverage measurement
(iii)	AVHRR	(3) E-Governance infrastructure
(iv)	State Data Centre	(4) Cultivable land

2.   Write short notes on **any four** of the following :   4x5=20
     (a)   Growth of Geoinformatics in India
     (b)   Free and Open Source software
     (c)   BIP data format
     (d)   Applications of Geoinformatics in water resource management
     (e)   Type of maps
     (f)   Contours representation for different landforms
     (g)   Crop identification and inventorisation

3. Define Geoinformatics. Discuss in detail the recent trends in the field of Geoinformatics. 10

OR

Discuss in detail various classes of map projection. Support your answer with suitable diagrams. 10

4. What is geospatial data ? Briefly discuss the sources of geospatial data. 10

OR

Explain the applications of Geoinformatics in natural disaster studies. 10

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