POST GRADUATE CERTIFICATE IN GEOINFORMATICS (PGCGI)

Term-End Examination

ロロ951   December, 2017

MGY-001 : INTRODUCTION TO GEOINFORMATICS

Time : 2 hours   *Maximum Marks : 50*

Note : *All questions are **compulsory**. Marks for each question are indicated against it.*

1. Answer *all* parts of the following :

   (a) Fill in the blank spaces with appropriate word(s). *4×1=4*

   (i) _____ is the national survey and mapping organization under DST.

   (ii) In _____ data format the real world features are represented in the form of line, point and polygon.

   (iii) Non-spatial data is also known as _____ .

   (iv) _____ data is the physically collected data by surveyors.

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

      (i)   Pixel is the smallest cell of an image,
            representing a unit area of the
            Earth's surface.

      (ii) Geocoded products are also known as
            georeferenced products.

      (iii) Geometrically corrected products with
            corrections for displacement caused
            by tilt and relief are called Merged
            products.

(c)   Match the items given in Column A with
      those given in Column B :   *3×1=3*

      Column A   *Column B*

      (i)   MODIS   (1) ISRO

      (ii) CARTOSTAT-2B   (2) Urban Planning

      (iii) NUIS   (3) NASA

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

                                                          4×5=20

     (a)   Geoinformatics Products

     (b)   Microwave Remote Sensing

     (c)   FOSS – Usage and Functionality

     (d)   Co-ordinate System

     (e)   Atmospheric Zones

     (f)   Map Scale

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3. Attempt any *one* part of the following : **10**

   (a) Discuss the sources of satellite raster data.

   (b) Explain the representation of physical features on the topographical map.

4. Attempt any *one* part of the following : **10**

   (a) Elaborate on the geoinformatics technology in ecosystem management and discuss any one, giving suitable examples.

   (b) Discuss the role of geoinformatics technology in social sciences and elaborate on archeological studies.

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