MGY-001

POST GRADUATE CERTIFICATE IN GEOINFORMATICS (PGCGI)
Term-End Examination
00642 **December, 2014**

MGY-001 : INTRODUCTION TO GEOINFORMATICS

Time : 2 hours *Maximum Marks : 50*

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

1. Answer *all* parts :

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

        (i) UTM is an abbreviation of _____ .

        (ii) The word 'MERIS' stands for _____ .

        (iii) The word 'LBS' stands for _____ .

        (iv) NeGP is an abbreviation of _____ .

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

        (i) Principal scale is the ratio of radii of globe to that of Earth.

        (ii) 'DTM' stands for Digital Terrain Model.

        (iii) 'Urban' and 'Rural' are the Level IV categories of residential land.

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

Column A	Column B
(i) BIP	(1) Geospatial tool
(ii) IDRISI	(2) Elevation data
(iii) ASTER GDEM	(3) Data format

2. Write short notes on any *four* of the following : *4×5=20*

   (a) Growth and challenges to geoinformatics industry

   (b) Primary visual variables of maps

   (c) Applications of geoinformatics technologies for monitoring forest fire

   (d) Comparison of raster and vector data

   (e) Sources of remote sensing data

   (f) Geoinformatics for Land and Mineral Resources

3. (a) Discuss any five national initiatives in which geoinformatics technologies have been utilised. *10*

   OR

   (b) What is data format ? Describe its types with illustrations. Also write about fast format. *10*

4. (a) What do you understand by map projection ? What are the properties of projection ? Also describe any three commonly used map projections with appropriate diagrams. *10*

OR

(b) Describe in detail the applications of geoinformatics for agriculture related studies. *10*