POST GRADUATE CERTIFICATE IN GEOINFORMATICS (PGCGI)

Term-End Examination

December, 2015

00124

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 repeatability of data whereas _____ of data refers to closeness to the true value.

    (ii) The data collected by first hand field work and survey is known as _____ data.

    (iii) _____ data refers to data related to any planet and cosmos.

    (iv) The guide which lists symbols and colours on a topographic sheet is known as _____ .

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

   (i)   Map is the graphical two-dimensional
         representation of features present on
         the Earth.

   (ii) Representative Fraction shows a
         relationship between ground distance
         and corresponding distance on the
         map in units of area.

   (iii) Land Cover refers to usage of land by
         human beings.

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

   Column A   *Column B*

   (i)   SWAM   (1) Indian Satellite

   (ii) DRDO Laboratory   (2) E-Governance
                                  initiative

   (iii) RESOURCE SAT-2   (3) DTRL

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

   (a)   Photogrammetry

   (b)   Commercial off-the-shelf (COTS) software

   (c)   Types of data products

   (d)   Concept and types of datum

   (e)   Geoinformatics for oil spill monitoring

   (f)   Topographical map interpretation

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

   (a) Discuss the types and applications of optical remote sensing. Give suitable examples. *10*

   (b) Define Digital Elevation Model (DEM) and discuss the sources of DEM data in detail. *10*

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

   (a) Elaborate the role of geoinformatics technology in natural resource management. *10*

   (b) Explain the applications of geoinformatics technology in crop identification and inventorisation. Give suitable examples. *10*