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MGY-001

POST GRADUATE CERTIFICATE IN GEOINFORMATICS (PGCGI)

Term-End Examination

00907

June, 2016

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 :

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

(i) The remote sensing technique that employs the Sun's energy is known as _____ remote sensing.

(ii) The specialized GIS that uses Internet in the dissemination of geographic information is known as _____ .

(iii) Mercator Projection was specifically used for nautical _____ by the early navigators.

(iv) _____ variables of maps include shape, size, orientation, colour, pattern arrangement and texture.

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

(i) Scale represents the ratio of distance on the map to the actual distance on the ground.

(ii) Land cover refers to natural landscape on the Earth's surface.

(iii) National e-Governance Plan (NeGP) has been formulated by Indian Space Research Organization (ISRO).

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

Column A	*Column B*
(i) Bhuvan	(1) NASA
(ii) Digital aerial photographs	(2) ISRO
(iii) Landsat	(3) Raster data

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

(a) Geoinformatics applications at DRDO

(b) Geospatial data product

(c) Free and Open Source Software (FOSS)

(d) Methods of representation of scale on the map

(e) Role and advantage of Geoinformatics in Ecosystem studies

(f) Role of Geoinformatics in Business Enterprise

3. Attempt any ***one*** part :

(a) Discuss the important developments in GIS. *10*

(b) Explain the types of spatial data. Give suitable examples. *10*

4. Attempt any ***one*** part :

(a) Discuss topographical maps. With the help of a neat, well-labelled diagram, explain the contour representation of different slopes and landforms on the map. *10*

(b) Describe in detail the role of geoinformatics technologies in meteorology. *10*