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MGY-001

POST GRADUATE CERTIFICATE IN GEOINFORMATICS (PGCGI)

Term-End Examination

00935

June, 2018

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) Telemedicine programme is the pilot project of _____ which is aimed at introducing telemedicine to grassroot population.

(ii) Spatial data can be broadly classified into _____ and _____ data.

(iii) The closeness of a measurement representing the quantity measured is known as _____.

(iv) In _____ data type the real world features are represented as grids.

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

(i) Greenwich meridian is called the prime meridian and holds a longitudinal value of 180°.

(ii) Two types of datums are horizontal and inclined datum.

(iii) Cadastral maps are used to show the ownership of land properties by demarcating the boundaries of agricultural fields and buildings.

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

Column A	*Column B*
(i) NeGP	(1) Census India
(ii) Relief Map	(2) 27 Mission Mode Projects
(iii) Map Metadata Source	(3) Topographical features

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

(a) Remote Sensing Satellite Data

(b) Data formats and its types

(c) COTS – its usage and functionality

(d) Topographical map interpretation

(e) Geoinformatics in e-governance

(f) Map elements

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

(a) Briefly discuss the recent developments in Geographic Information Systems, giving any four examples.

(b) Discuss the role of geoinformatics technologies in natural resource management. Elaborate on mineral and water resources, giving suitable examples.

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

(a) Explain the applications of geoinformatics technologies for Atmospheric Studies.

(b) Briefly discuss the types of data products based on the level of processing.