MGIS–02/PGDGIS–02/CGIS–02

Geographical Information Systems

Master of Geographical Information System/Post Graduate Diploma in Geographical Information System/Certificate in Geographical Information System

(MGIS/PGDGIS/CGIS–11/16/17)

First Year/First Semester, Examination, 2017

Time : 3 Hours **Max. Marks : 80**

Note : This paper is of **eighty (80)** marks containing **three (03)** Sections A, B and C. Attempt the questions contained in these Sections according to the detailed instructions given therein.

Section–A

(Long Answer Type Questions)

Note : Section 'A' contains four (04) long answer type questions of nineteen (19) marks each. Learners are required to answer *two* (02) questions only.

1. Explain the characteristics of raster and vector data. How are they represented in GIS database ?

2. Discuss the role of GIS in land use and urban planning.

P. T. O.

3. Write short notes on the following :

   (i) Spatial and attribute data

   (ii) Geographic scales

   (iii) Requirements of GIS

   (iv) GIS *vs.* GBMS

4. Write down the different types of projections.

Section–B

(Short Answer Type Questions)

Note : Section 'B' contains eight (08) short answer type questions of eight (08) marks each. Learners are required to answer *four* (04) questions only.

1. What is meant by undershoot and overshoot ?
2. What are Thematic Maps ?
3. Describe the overlay analysis in GIS.
4. Describe the fundamental projection classification of maps.
5. Components of GIS.
6. What is Geo-Referencing ?
7. Define Map overlay.
8. Discuss in brief about the Modelling in GIS.

Section–C

(Objective Type Questions)

Note : Section 'C' contains ten (10) objective type questions of one (01) mark each. All the questions of this Section are compulsory.

Choose the correct answer :

1. DBMS stands for :

   (a) Database Management System

(b) Database Monitoring System

(c) Database Manufacturing System

(d) Database Mixing Station

2. All cultivated areas are shown with :

(a) Blue

(b) Green

(c) Yellow

(d) Brown

Fill the correct answer :

3. .... drainage patterns develop surroundings areas of high topography where elevation drops from a central high area to surroundings low areas.

4. A .... is a detailed and accurate two-dimensional representation of natural and human made features on the real world.

Write true/false :

5. Metadata is metrological data.

6. TIN stands for Temporal Interest Network.

7. SDI stands for Spatial Data Infrastucture.

8. A DBMS supports the use of a Data Model.

9. Arc GIS are full fledged GIS packages.

10. Objects can be classified based on location, shape, size and orientation.

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