

Roll No. ....

## **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)

First Year/First Semester, Examination, 2017

**Time : 3 Hours**

**Max. Marks : 70**

**Note :** This paper is of **seventy (70)** marks containing **three (03)** sections A, B and C. Learners are required to 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 fifteen (15) marks each. Learners are required to answer *two* (02) questions only.

1. What are the components of GIS ? Explain.
2. Compare and contrast the raster and vector data representation with suitable examples.
3. What is Toposheet and what is the significance of colours in a Toposheet ?
4. Explain in detail about the following :
  - (a) DEM
  - (b) TEN

### Section-B

#### (Short Answer Type Questions)

**Note :** Section 'B' contains eight (08) short answer type questions of five (05) marks each. Learners are required to answer *six* (06) questions only.

1. What are the role of topological data in GIS mapping ?
2. Define map overlay.
3. What is meant by undershoot and overshoot ?
4. What is UTM in GIS ?
5. What is Geo-Referencing ?
6. What is Datum ? Give examples.
7. Define integrated GIS.
8. Write a short note on land information system.

### 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.

Fill in the blanks :

1. Quantitative ..... always is associated with a scale measure.
2. The ..... Poles can also be used to measure direction.
3. The ..... can broadly be classified into gentle, steep, concave, convex and irregular.
4. Projections describe in terms of the ..... of projection plane's orientation with respect to the globe.
5. The azimuthal ..... projection is a conformal projection.

Write True *or* False :

6. In a ratio scale, numbers cannot be compared as multiples of one another.
7. The bearing system divides direction into four quadrants of 180 degrees.
8. On a topo map, all settlements are shown by symbols in red colour.
9. Rank shows relative value rather than measured value.
10. The art of map construction is called cartography.

