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–11/16/17)

First Year/First Semester, Examination, 2018

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. Discuss the various types of raster data structures.
2. Explain in detail about DEM and TIN.
3. What are the *four* basic procedures for inputting spatial data into a GIS ?
4. Give a detailed account on overlay analysis in GIS.

Section–B

(Short Answer Type Questions)

Note : Section 'B' contains eight (08) short answer type questions of eight (8) marks each. Learners are required to answer *four* (04) questions only.

1. Write down the different types of projections.
2. What is data obstraction in a database management system ?
3. Explain the basic modules of GIS software.
4. Define spatial and non-spatial data.
5. Explain Geo-Referencing.
6. Briefly explain the components of GIS.
7. Differentiate between raster and vector data.
8. What is attribute data ?

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.

Write full form of the following :

1. GIS
2. SPI
3. DBMS
4. TIN
5. NDVI

Write true/false :

6. GIS deals with spatial data.
7. User can use GIS to make display maps only.
8. A DBMS supports the storage and manipulation of very large data sets.
9. Map maker use GIS store, use and view geographic information.
10. Natural phenomena are usually in fields.