MGIS-11/PGDGIS-11/CGIS-11 (Master of Geographical Information System/ Post Graduate Diploma in Geographical Information System/ Certificate in Geographical Information System)

First Year, Examination-2014

MGIS-02/PGDGIS-02

Geographical Information Systems

Time Allowed : Three Hours

Maximum Marks : 60

Note : The paper is divided into three sections A, B and C. Notes for each section are given in the section itself.

Section - A

(Long answer type Questions)

Note : Answer any 2 Question. Each question carries 15 marks. (2×15=30)

1. Describe use, merits, and demerits of any three types of projections.

2. What is difference between clip and interesect ? Illustrate by sketch one example of each. Why buffers are created in GIS? Illustrate 3 examples by sketching line buffers for different purposes.

3. What is database in GIS ? Define various types of data used in the GIS.

4. Provide schematic planning of a GIS for wildlife conservation, with emphasis to establish a new Tiger Reserve.

Section - B

(Short answer type Questions)

Note : Answer any 4 question. Each question carries 5 marks. (4×5=20)

1. Make a diagram of toposheet showing following features - contour, railway line, pakka road, and canal.

2. What is slope ? Describe importance of slopes and various categories of slopes for an urban settlement in the mountain.

3. Why latitudes start from zero ? Describe latitudinal and longitudinal extents of India.

4. How two tables can be linked in GIS database and what is the need to link ?

5. Describe method to link spatial data with non-spatial data in GIS.

6. Why spatial data is better than non-spatial data or vice versa.

7. Describe various parts of Hardware components of a GIS System.

8. What is datum ? Describe various datum with reference to India.

Section - C

(Objective type Questions)

Note : Answer all questions. Each question carries 1 Marks.

(10×1=10)

Fill in the blanks :

1. Forested vegetation is shown as .... in toposheets.

2. Satellite images are .... data.

3. LCC is ....

4. Well and Peaks are .... data in GIS.

5. 1:250,000 RF has scale equal to 10 cm =....... km.

Write True/False in front of the following :

1.   Union is GIS operation   **T/F**

2.   In GIS, mapping can be done without scale   **T/F**

3.   Human population is non-spatial data   **T/F**

4.   Latitude moves towards east and west   **T/F**

5.   Aerial photo is non-spatial data   **T/F**