Roll No. …………………..

MGIS–04/PGDGIS–04

DIP & Mapping

Master of Geographical Information System/
Post Graduate Diploma in Geographical
Information System (MGIS/PGDGIS–11/16)

First Year, Examination, 2017

Time : 3 Hours   **Max. Marks : 70**

Note : This paper is of **seventh (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. Explain the basic elements of digital image processing.

2. What is filtering in DIP ? Explain its all components.

3. What is the difference in image restoration and image enhancement ? Discuss the image restoration and image enhancement techniques'.

4. Discuss in detail about labelling.

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 types of image resolutions ?

2.   What is radar image ?

3.   What is the significance of ground truthing ?

4.   What is Metadata ? Explain the types of Metadata.

5.   Explain the History of Cartography.

6.   What is the difference between RADAR and LIDAR ?

7.   What is SRTM DEM ?

8.   What are Remote sensing data types ? Explain.

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.   The transition between continuous values of the image function and its digital equivalent is called _____ .

   (a)   Quantization

   (b)   Sampling

   (c)   Rasterization

   (d)   None of the mentioned

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2. The smallest discernible change in intensity level is called _____ .

    (a) Intensity Resolution

    (b) Contour

    (c) Saturation

    (d) Contrast

Fill in the blanks :

3. 15 century maps were at first printed using ....

4. .... maps symbolize features according to the value of their attributes.

5. A .... slope on a map will be closely spaced at the top of the terrain feature and widely spaced at the bottom.

Write True *or* False :

6. Digital image processing is the use of computer algorithms to perform image processing on digital images.

7. An orderly repetition of similar tones and textures will produce a distinctive and recognizable.

8. Image Classification and Analysis is not one of the most common image processing functions.

9. Thematic and non-spatial database paper maps and tables are flexible.

10. Mosaic is a raster dataset composed of two or more merged raster datasets.

MGIS–04/PGDGIS–04   **100**

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