

Total No. of Printed Pages : 4

Roll No.....

MGIS-04/PGDGIS-04
DIP AND MAPPING

Master of Geographical Information System/
Post Graduate Diploma in Geographical Information
System (MGIS/PGDGIS-11/16/17)

First Year, Examination-2020

Time Allowed : 2 Hours

Maximum Marks : 80

Note : This paper is of Eighty (80) marks divided into Two (02) sections A and B. Attempt the question contained in these sections according to the detailed instructions given therein.

Section-A

(Long Answer Type Questions)

Note : Section-'A' contains Five (05) long answer type questions of Twenty (20) marks each. Learners are required to answer any two (02) questions only. (2×20=40)

1. Explain the Digital image processing in details with all its elements using suitable examples.
2. Define the different segments of Electromagnetic Spectrum. Explain visible range portion of EMS with suitable use case.
3. Define the image classification. What are the differences between supervised and unsupervised classification? Describe the limitations of each type of classification.
4. Define the importance of ground truthing in Remote Sensing. Prepare a field form for ground truthing of any two applications of Remote Sensing.
5. Explain brief history of cartography. Define the different map components in detail.

Section-B

(Short answer type questions)

Note: Section-B Contains Eight (08) short answer type questions of Ten (10) marks each. Learners are required to answer any four (04) questions only. (4×10=40)

1. What are the components of DBMS?
2. Explain the principle of the computer cartography.
3. Define the importance of Scale, Projection, Legend, Labels, Headings and North arrow in maps.
4. Write short note about metadata and raster data.

5. What is Hybrid classification? Explain.
6. What is SRTM DEM?
7. What are the different types of image formats?
Explain at least three types of formats.
8. Define the importance of vector data over the
raster data. Describe various types of vector data
with suitable examples.
