

C1049

Total Pages : 3

Roll No.

MGIS-04/PGDGIS-04

DIP and Mapping

Master / P.G. Diploma in Geographical Information System

(MGIS/MAGIS/MSCGIS/PGDGIS-16/17)

1st Year Examination, 2022 (June)

Time : 2 Hours]

Max. Marks : 80

Note : This paper is of Eighty (80) marks divided into two (02) Sections A and B. Attempt the questions 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. What do you understand by digital image? Explain various elements of image interpretation.

2. Define image classification and types of image classification. Explain the process and significance of ground truthing.
3. What is Digital Elevation Model (DEM)? Describe the sources of DEM Creation.
4. What are the different methods of depicting relief? Explain contour lines and its interpolation method.
5. Define cartography? Present brief history of cartography.

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. Distinguish between multi-spectral, multi-sensor and multi-temporal information.
2. Mention most common image processing functions. Explain colour composite and FCC image.
3. What is spatial and non-spatial data in Geographical Information System (GIS)?
4. Describe GCP and RMS in image registration.

5. Distinguish between TIN and DEM.
 6. Describe radar interferometry and its application.
 7. Define slope and its types. Describe supplementary terrain features.
 8. Explain the terms **over posting** and **polygon labelling** in GIS Mapping.
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