

A-0649

Total Pages : 3

Roll No.

GIS-507/DGIS-507

Recent Trends in Geo Informatics Part-I

(MAGIS/MSCGIS/DGIS/CGIS)

Examination 2026 (Feb.)

Time: 02:00 hrs

Max. Marks: 70

Note : This paper is of seventy (70) marks divided in to two (02) Section A and B. Attempt the questions contained in these sections according to the detailed instructions given therein. *Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.*

Section-“A”

(Long Answer - type Questions)

Note:- Section ‘A’ contains Five (05) long-answer-type questions of nineteen (19) marks each. Learners are required to answer any two (02) questions only.

(2x19=38)

P.T.O

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1. What is cloud GIS? Explain the development process of cloud GIS database in detail.
2. Explain the concept, components, and advantages of 3D GIS technology in spatial analysis.
3. Describe the challenges in 3D GIS modeling for data acquisition, storage, and visualization.
4. Explain the difference between near-field and far-field geodetic surveys with suitable examples.
5. Discuss the differences between geographic and projected coordinate systems, including their advantages and disadvantages.

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 any Four (04) questions only.

(4x8=32)

1. Explain different techniques of Web based mapping.
2. What is cloud-based database?
3. What is the role of LiDAR in 3D GIS data collection?
4. Define Digital Elevation Model (DEM).

5. What is the advantage of 3D GIS modeling for smart cities?
6. What is the function of the control segment in GPS?
7. Explain coordinate systems used in mapping and GIS.
8. Explain GPS errors and accuracy.
