

A-0650

Total Pages : 3

Roll No.

GIS-508/DGIS-508

Application of Geo Informatics Part-I

(for M.Sc. Student)

(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

A-0650

1. Discuss how Remote Sensing (RS) and GIS techniques are used in the characterization and monitoring of land degradation.
2. What is watershed delineation? Explain the methods of watershed delineation using Geoinformatics techniques.
3. Evaluate the challenges and future prospects of large-scale surveying and mapping projects GPS technology.
4. Evaluate the potential of modern GPS technologies and Real-Time Kinematic (RTK) systems in improving Remote Sensing surveys.
5. Describe the principle of GPS and its importance in high-precision surveying.

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. How does soil moisture affect the reflectance of soil in remote sensing data?
2. Explain challenges and limitations of Remote Sensing data for soil moisture estimation.
3. How do GIS help in the study of landform evolution? Explain.
4. Explain terrain mapping using Remote Sensing technique.
5. Explain use of Geoinformatics techniques in identifying groundwater potential zones.
6. What is the function of GPS in tracking environmental changes over time?
7. How does GPS support integration with Remote Sensing data?
8. Explain GPS navigation system.
