



PG (CBCS)
M.A. & M.SC. Semester - IV Examination, 2026
GEOGRAPHY
PAPER: GEO 405 D

(ADVANCED GIS AND APPLICATIONS OF REMOTE SENSING)

Full Marks: 20

Time: 1 Hour

The figures in the right-hand margin indicate full marks.
 Candidates are required to give their answers in their own words as far as practicable.

GROUP-A

Answer any **TWO** of the following questions:

2×2=4

1. What is the acronym of SQL?
2. Why is data compression important for storing raster geospatial data?
3. What is the difference between DSM and DTM?
4. What is spatial modelling?

GROUP-B

Answer any **TWO** of the following questions:

2×4=8

5. Explain NDVI and its significance in vegetation health assessment.
6. Briefly discuss the application of remote sensing techniques in soil moisture estimation.
7. Discuss mobile GIS and Web GIS technologies and their applications.
8. Write a short note on spatial and non-spatial data with examples.

GROUP-C

Answer any **ONE** of the following questions:

1×8=8

9. Discuss different types of map algebra operations to perform raster data analysis with neat sketches.
10. Explain the integrated use of satellite data for agricultural mapping and coastal water quality assessment.

<<◇>>