

2025

M.Sc. 1st Semester Examination

REMOTE SENSING AND GIS

Paper : RSGC406X0

(Surveying and Navigational Satellite System)

Full Marks : 25

Time : One Hour

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

Group - A

Answer any *two* questions : $2 \times 2 = 4$

1. Explain the concept of a geoid.
2. What is Continuously Operating Reference Station (CORS)?
3. How does Precise Positioning Service differ from Standard Positioning Service in NAVSTAR GPS?
4. What is Datum?

Group - B

Answer any *two* questions : $4 \times 2 = 8$

5. Explain briefly about field verification and Ground Truthing.

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(2)

6. What is triangulation and traversing in surveying?
7. Write a short note on PPK and RTK mode in GPS surveying.
8. Compare between GPS point positioning and relative positioning.

Group - C

Answer any *one* question : $8 \times 1 = 8$

9. Describe different error factors associated with propagated GPS signals.
10. Discuss space segments and operational concept of Indian Regional Navigation Satellite System (IRNSS) with neat sketches.

Internal Assessment - 5 marks
