

2025

M.Sc. 3rd Semester Examination
REMOTE SENSING AND GIS

Paper : RSG - 306 C

(Fundamentals of Earth 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.*

Illustrate the answers wherever necessary.

Group - A

1. Answer any *two* questions :

2×2=4

- (a) Explain the term 'hydrosphere'?
- (b) What is lithification?
- (c) Define strike and dip.
- (d) What are structural landforms?

P.T.O.

(2)

Group - B

2. Answer any *two* questions : 4×2=8

- (a) How are earthquakes related to plate movements.
- (b) Explain the rock cycle with neat diagram.
- (c) Discuss how geomorphological features can be delineated and analyzed using satellite imagery.
- (d) Explain the importance of spectral libraries in lithological mapping.

Group - C

3. Answer any *one* question : 8×1=8

- (a) Explain the different types of drainage patterns and the geological structures they indicate.
- (b) Explain how fold, fault and lineaments can be delineated and interpreted using satellite images.

Internal Assessment : 5 marks
