

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2025

(CBCSS - PG)

(Regular/Supplementary/Improvement)

CC19PGEL1C02 - STRUCTURAL GEOLOGY AND GEOTECTONICS

(Applied Geology)

(2019 Admission onwards)

Time : 3 Hours

Maximum : 30 Weightage

Part-AAnswer any ***four*** questions. Each question carries 2 weightage.

1. Brittle and ductile deformation.
2. Superposed folding and interference patterns.
3. Extensional and shear fractures.
4. Types of tectonites.
5. Euler's Theorem in tectonics.
6. Accretionary orogens.
7. Mountain chains.

(4 × 2 = 8 Weightage)**Part-B**Answer any ***four*** questions. Each question carries 3 weightage.

8. Geological mapping and Map reading.
9. Stress strain diagram.
10. Classification of foliation.
11. Shear zones and its types.
12. Physico- chemical properties of earth's interior.
13. Geodynamic evolution of the Indian plate.
14. Palaeomagnetism.

(4 × 3 = 12 Weightage)

Part-C

Answer any ***two*** questions. Each question carries 5 weightage.

15. Explain joints and its classification with neat sketches.
16. Describe stereographic projection in Structural Geology. Add a short note on its uses.
17. Describe the tectonic evolution of earth's continental crust.
18. Describe the various concepts related with plate kinematics. Add a short note on absolute and relative plate motion.

($2 \times 5 = 10$ Weightage)
