

23P147

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Name:

Reg.No:

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2023

(CBCSS - PG)

(Regular/Supplementary/Improvement)

CC19P GEL1 C02 - STRUCTURAL GEOLOGY AND GEOTECTONICS

(Applied Geology)

(2019 Admission onwards)

Time : 3 Hours

Maximum : 30 Weightage

Part-A

Answer any *four* questions. Each question carries 2 weightage.

1. Principles of Geological Mapping.
2. Brittle and ductile deformation.
3. Lineation.
4. Planetary tectonics.
5. Evolution of indian plate.
6. Volcanic arcs.
7. Collisional orogens.

(4 × 2 = 8 Weightage)

Part-B

Answer any *four* questions. Each question carries 3 weightage.

8. Stress strain diagram.
9. Classification of fractures.
10. Tectonites.
11. Stereographic projections.
12. Hadean, archaean, post archaean continental crust.
13. Mid Oceanic Ridge System.
14. Palaeomagnetism.

(4 × 3 = 12 Weightage)

Part-C

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

15. Describe the geometry of folds. Add a note on its genetic classification after Donath and Parker.
16. Discuss the geometry and types of shear zones, shear sense indicators, and important rock types associated with the shear zones.
17. Discuss the structure of interior of the earth, and give an account of the geochemical and geophysical characters of lithosphere and mantle.
18. Describe the various concepts related with plate kinematics. Add a short note on absolute and relative plate motion.

(2 × 5 = 10 Weightage)
