

17P152

(Pages:2)

Name:

Reg. No.

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2017

(Regular/Supplementary/Improvement)

(CUCSS-PG)

CC15PGEL1C02 – STRUCTURAL GEOLOGY AND GEOTECTONICS

(Applied Geology)

(2015 Admission onwards)

Time: Three Hours

Maximum: 36 Weightage

PART A

(Short Answer type)

Answer *all* questions. Each question carries 1 weightage.

1. Pseudotachylite.
2. Ductile Shear Zone.
3. Fracture.
4. Projection diagram.
5. Feather joint.
6. Axial plane foliation.
7. Differential forces.
8. Deep sea trenches.
9. Triple junction.
10. Benioff zone.
11. Mountain chains.
12. Palaeomagnetism.
13. Island arcs.
14. Seismic belts.

(14 x 1 = 14 weightage)

PART B

(Short essays. each not exceeding two pages)

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

15. Lineation.
16. Fault geometry and nomenclature.
17. Superposed folding & interference pattern.
18. Mohr's diagram.
19. Stress- Strain diagram.

- 20. Geodynamics of Indian plate.
- 21. Seafloor spreading.
- 22. Continental shield areas.
- 23. Plate margins.
- 24. Magnetic anomalies.

(7 x 2 = 14 weightage)

PART C

(Long essays)

Answer *two* questions. Each question carries 4 weightage.

- 25. Explain orogeny & epeirogeny. Evaluate between orogeny and plate tectonics.

Or

- 26. Continental drift- Geological and geophysical evidence.

- 27. Genetic and geometric classification of fold.

Or

- 28. Concept of petrofabric studies.

(2 x 4 = 8 weightage)

(14 x 1 = 14 weightage)

PART B

(Short essays each not exceeding two pages)

Answer any seven questions. Each question carries 2 weightage.

- 12. Lineation
- 16. Fault geometry and nomenclature
- 17. Supraposed folding & interference pattern
- 18. Mohr's diagram
- 19. Stress-strain diagram