

15P147

Name:.....

Reg. No.....

FIRST SEMESTER, M.Sc. DEGREE EXTERNAL EXAMINATION, FEB. 2016

(2015 Admission)

CC15P GEL1 C02 STRUCTURAL GEOLOGY & GEOTECTONICS

(Geology)

Time: 3 Hrs.

Total: 36 Weightage

I. Answer *all* questions in two or three sentence each:

1. Plunging folds.
2. Measurement of strain in deformed rocks.
3. Equal area projection.
4. Ductile shear zone.
5. Fault breccia.
6. Mohr diagram.
7. Fracture cleavage.
8. Minor folds.
9. Crenulation cleavage.
10. Mural joints.
11. Volcanic arcs.
12. Deep sea trenches.
13. Benioff zone.
14. Orogeny.

(14 x 1 = 14 weightage)

II. Answer any *seven* questions, each not exceeding two pages:

15. Fault geometry.
16. Tectonic fabric.
17. Features of fault plane.
18. Use of universal stage in fabric studies.

19. Mylonites and their significance.
20. Seafloor spreading.
21. Continental shield areas.
22. Geodynamics of the Indian plate.
23. Seismicity and plate tectonics.
24. Magnetic anomalies in Mid oceanic ridges. **(7 x 2 = 14 weightage)**

III Write essays on:

25. Describe the geometric and genetic classifications of folds.

Or

26. Explain the stress-strain ellipsoid and their application in the study of faults and joints. **(1 x 4 = 4 weightage)**

27. Describe the continental drift concept giving evidences for and against.

Or

28. Explain orogeny and epeirogeny. Evaluate the relation between orogeny and plate tectonics.

(1 x 4 = 4 weightage)
