18P156 (Pages: 2) Name: …….

Reg. No……...

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2018

(Regular/Supplementary/Improvement)

(CUCSS-PG)

CC15P GEL1 C02 – STRUCTURAL GEOLOGY AND GEOTECTONICS

(Applied Geology)

(2015 Admission onwards)

Time: Three Hours Maximum: 36 Weightage

Part A

Answer ***all*** questions in two or three sentences. Each question carries 1 weightage.

1. Bouger anomaly.
2. Circum pacific belt.
3. Benioff zone.
4. Klippe.
5. Mid Atlantic Ridge.
6. Neotectonics.
7. Rift valley.
8. Tectonites.
9. Dip isogon.
10. Crenulation cleavage.
11. Accretionary wedge.
12. Inlier.
13. Beta diagram.
14. *S*-fold.

(9 x 1 = 9 Weightage)

Part B

Answer any ***seven*** questions each not exceeding two pages.
Each question carries 2 weightage.

15. Evidences for continental drift.
16. Lineation.
17. Genesis and growth of continental crust.
18. Mylonites and pseudo tachylites.
19. Magnetic reversals and their cause.
20. Stages of deformation and stress strain curve.

21. Back bearing method in structural mapping.
22. Polar wandering curve.
23. Mantle plumes.
24. Shear joints and tension joints.

(7 x 2 = 14 Weightage)

Part C

Write essays on any ***two*** questions. Each question carries 4 weightage.

25. Discuss in detail the classification and mechanism of folding. Draw neat sketches wherever necessary.

Or

26. Give a detailed account of the different types of plate boundaries with neat sketches. Add a note on the petrographic significance of different plate boundaries.

27. Explain the geometrical classification of faults. Add a note on the relation between principal stress direction and type of faulting.

Or

28. Describe the emergence of plate tectonic theory from the concepts of seafloor spreading.

(2 x 4 = 8 Weightage)

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