

**19U626S**

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Name: .....

Reg. No.....

**SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2022**

(CUCBCSS-UG)

**CC15U GL6 B17 - STRUCTURAL GEOLOGY AND GEOTECTONICS**

(Geology- Core Course)

(2016 to 2018 Admissions - Supplementary/ Improvement)

Time: Three Hours

Maximum: 80 Marks

*Draw neat diagrams wherever necessary.*

**Part- A**

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

1. The line joining points of equal elevations.
2. The typical joint seen in Granite
3. Name the deformation takes place under uniform pressure from all directions.
4. Dip angle measured in any vertical plane that is not perpendicular to the strike.
5. Striations found on fault planes and formed due to movement.
6. Line of maximum curvature in a folded bed.
7. What type of forces dominates at divergent plate margins?
8. Discontinuity that separates Crust from the Mantle.
9. Failed arm of a triple junction.
10. The name Pangea was coined by -----

**(10 × 1 = 10 Marks)**

**Part- B**

Answer any *ten* questions. Each question carries 2 marks.

- |                         |                           |
|-------------------------|---------------------------|
| 11. Outcrop.            | 17. Crenulation cleavage. |
| 12. Primary foliation.  | 18. Drag folds.           |
| 13. Hook's law.         | 19. Hot spot.             |
| 14. Throw and heave.    | 20. Island Arcs.          |
| 15. Inlier and Outlier. | 21. Benioff Zone.         |
| 16. Transform fault.    | 22. Asthenosphere.        |

**(10 × 2 = 20 Marks)**

**Part- C**

Answer any *five* questions. Each question carries 6 marks.

23. Stress- Strain diagram.
24. Uses of Clinometer.

25. Discuss Unconformities and its types.
26. Palaeomagnetism.
27. Rule of V.
28. Types of lineations.
29. Mid Oceanic Ridges.
30. Seafloor spreading and age of the Oceanic crust.

**(5 × 6 = 30 Marks)**

**Part- D**

Answer any *two* questions. Each question carries 10 marks.

31. Explain the geometry and classification of folds.
32. What are joints? Give an account of the terminology, types and significance of joints.
33. Write an essay on Tectonic evolution of Indian subcontinent.
34. Describe the different types of plate margins.

**(2 × 10 = 20 Marks)**

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