

22U527

(Pages: 2)

Name:

Reg.No:

FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2024

(CBCSS - UG)

(Regular/Supplementary/Improvement)

CC19U GEO5 B09 - STRUCTURAL GEOLOGY AND GEOTECTONICS

(Geology - Core Course)

(2019 Admission onwards)

Time : 2.00 Hours

Maximum : 60 Marks

Credit : 3

Part A (Short answer questions)

Answer *all* questions. Each question carries 2 marks.

1. Geological map.
2. Lincation.
3. Confining stress.
4. Axial surface.
5. Graben.
6. Joint system.
7. Shear zones.
8. Disjunctive cleavage.
9. Primitive circle.
10. Oceanic crust.
11. Rift Valley.
12. Sea Floor Spreading.

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

Answer *all* questions. Each question carries 5 marks.

13. Relation between true dip and apparent dip.
14. Mechanism of Elastic Deformation.
15. Classification of fold based on Fold closure.
16. Classification of fault in relation with bedding.
17. Achankovil Shear Zone.

18. Geophysical characteristic of asthenosphere.
19. Continental Drift Hypothesis and Evidences.

(Ceiling: 30 Marks)

Part C (Essay questions)

Answer any *one* question. The question carries 10 marks.

20. Describe unconformities and types, significance and recognition in the field.
21. Explain Mantle composition and petrology; add a note on different models of mantle convection.

(1 × 10 = 10 Marks)
