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(Pages: 2)

Name:

Reg.No:

FIFTH SEMESTER M.Sc. INTEGRATED GEOLOGY DEGREE EXAMINATION, NOVEMBER 2023

(CBCSS)

(Regular/Supplementary/Improvement)

CC20I GLO5I B08 - STRUCTURAL GEOLOGY AND GEOTECTONICS

(Geology)

(2020 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. Stress.
2. Biaxial Stress.
3. Discuss brittle Deformation.
4. Axial Trace.
5. Dome.
6. Vergence of Fold.
7. Local unconformity.
8. Throw.
9. Translational Fault.
10. Mylonitic Foliation.
11. Evidences For Sea Floor Spreading.
12. Convergent Plate Boundary.

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

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

13. Describe strain ellipsoid.
14. Folds and ductile deformation.
15. Significance of unconformities.
16. Characteristic rocks of fault zones.
17. Shear joints.

18. Geometric classification of joints.

19. Lincation.

(Ceiling: 30 Marks)

Part C (Essay questions)

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

20. Describe the concept of stress and strain. Elaborate behaviour of rocks under stress.

21. Geological structures associated with different plate boundaries.

(1 × 10 = 10 Marks)
