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Name.....31.....

Reg. No.....

**FIFTH SEMESTER B.Sc. DEGREE EXAMINATION  
NOVEMBER 2014**

(UG-CCSS)

Core Course – Geology

GL 5B 11 – STRUCTURAL GEOLOGY AND GEOTECTONICS

Time : Three Hours

Maximum : 30 Weightage

*Draw neat sketches wherever necessary.*

I. Objective Type Questions. Answer all *twelve* questions :

1. Line connecting points of equal elevation on map.
2. Type of strain due to hydrostatic stress.
3. Which among the following is not a brittle structure ?  
(a) Joint. (b) Fracture.  
(c) Fault. (d) Fold.
4. Striations found on fault planes and formed due to movement.
5. Structure produced due to the preferred parallel arrangement of flaky minerals.
6. Measure of total displacement due to a fault.
7. Line connecting points of maximum curvature on a folded surface.
8. The term not associated with plate tectonics :  
(a) Subduction. (b) Mantle convection.  
(c) Elastic rebound. (d) Lithosphere.
9. Instrument used to record earthquake waves
10. Which among the following cannot be found in a geologic map ?  
(a) Rock types. (b) Igneous intrusions.  
(c) Rock Structure. (d) Drainage.
11. Surface of erosion or non deposition in a geologic succession.
12. Sea that existed between Indian and Asian plates before their collision.

(12 × ¼ = 3 weightage)

II. Short Answer Type Questions. Answer *all* questions :

13. Mid oceanic ridge.
14. True dip and apparent dip.

**Turn over**

15. Recumbent folds.
16. Mantle convection.
17. Thrust faults.
18. Hooke's law.
19. Thickness of beds.
20. Shield areas.
21. Outcrop.

(9 × 1 = 9 weights)

III. Short Essay Type Questions. Answer any *five* :

22. Topographic maps.
23. Recognition of faults in map.
24. Outlier and inlier.
25. Stress-strain diagram.
26. Evidences for sea floor spreading.
27. Hot spots.
28. Parts of a fold.

(5 × 2 = 10 weights)

IV. Essay Type Questions. Answer any *two* :

29. What are the different types of joints? Explain.
30. How are unconformities classified? Describe the different types.
31. Describe the different types of plate margins.

(2 × 4 = 8 weights)