

C 21183

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Name.....

Reg. No.....

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, MARCH 2017

(CUCBCSS—UG)

Geology

GLY 6B 17—STRUCTURAL GEOLOGY AND GEOTECTONICS

Time : Three Hours

Maximum : 80 Marks

Draw neat sketches wherever necessary.

Part A

(Answer all ten questions in one word or one sentence each)

1. The line joining points of equal elevation in a map.
2. The direction along with an inclined plane is having maximum dip.
3. The type of fault with both dip slip and strike slip components.
4. The system of faults which are overlap each other.
5. Type of joints with same strike.
6. The unconformity in which sedimentary rocks overlain over crystalline rocks.
7. A major structural unit of the earth's crust that remained unaffected by later orogenies is called _____.
8. The hypothetical supercontinent that is thought to have existed in the very distant Geologic past.
9. The term isostasy was proposed by _____.
10. Discontinuity that separates crust from the mantle.

(10 × 1 = 10 marks)

Part B

*Short answer type questions.
Explain any ten of the following.*

11. Apparent dip.
12. Symmetrical fold.
13. Anticline.
14. Gap in fault.
15. Dilation.
16. Horst.
17. Strike slip.
18. Foot wall.
19. Lithosphere.
20. Hot spots.

Turn over

21. Oceanic trenches.
22. Benioff zone.

(10 × 2 = 20 marks)

Part C

Paragraph type questions.
Describe any five of the following.

23. Stages of rock deformation.
24. Construction of contour maps.
25. Types of strain.
26. Joints in metamorphic rocks.
27. Drag fold and its significance in structural geology.
28. Petrochemical characters asthenosphere.
29. Seafloor spreading and age of the oceanic crust.
30. Polar wandering and Palaeomagnetism.

(5 × 6 = 30 marks)

Part D

Essay type questions.
Answer any two questions.

31. Write an essay on Tectonic evolution of Indian subcontinent.
32. Explain the theory of plate tectonics. Add a note on the basic concepts.
33. Define fault. Describe the parts of a fault and classification of faults.
34. What are unconformities ? Describe the types, significance and their recognition in the field and on the maps.

(2 × 10 = 20 marks)