

D 11288

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Name.....

Reg. No.....

FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2016

(CUCBCSS—UG)

Geology

GLY 5B 13—METAMORPHIC GEOLOGY

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 type of metamorphism which produces mylonites.
2. The texture in non-schistose rocks with a mosaic of equidimensional grains.
3. Prehnite in a metamorphic rock indicates ————— grade of metamorphism.
4. A metamorphic rock showing alternate dark and light coloured bands.
5. A metamorphic rock composed of omphacite and almandine.
6. The carbon mineral in Khondalites is —————.
7. Coal belonging to the highest rank.
8. The person who gave facies classification of metamorphic rocks.
9. The type of metamorphism in which high temperature is dominant.
10. The gneiss formed from pre-existing igneous rock.

(10 × 1 = 10 marks)

Part B (Short Answer Type Questions)

Answer any ten questions.

11. Thermal metamorphism.
12. Paragneiss.
13. Phyllite.
14. Relict texture.
15. Isograd.
16. Geobarometry.
17. Metasomatism.

Turn over

18. Symplectite.
19. Skarn.
20. Metamorphic diffusion.
21. Anatexis.
22. Khondalite.

(10 × 2 = 20 marks)

Part C (Paragraph Type Questions)

Answer any five questions.

23. Agents of metamorphism.
24. Metamorphism in plate interiors.
25. Porphyroblastic texture.
26. Mineral paragenesis.
27. Greenschist facies metamorphism.
28. Paired metamorphic belts.
29. Petrography and origin of eclogites.
30. UHT metamorphism.

(5 × 6 = 30 marks)

Part D (Essay Type Questions)

Answer any two questions.

31. Describe the metamorphism of argillaceous rocks.
32. Give an account of different types of metamorphism based on geologic setting.
33. Describe different kinds of metamorphic structures.
34. Give an account of prograde and retrograde metamorphism.

(2 × 10 = 20 marks)