

21U526

(Pages: 2)

Name:

Reg.No:

FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2023

(CBCSS - UG)

(Regular/Supplementary/Improvement)

CC19U GEO5 B12 - METAMORPHIC PETROLOGY

(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. Metamorphic diffusion.
2. Contact aureoles.
3. Flaser texture.
4. Isograd.
5. Garnet zone.
6. Barrowian facies series.
7. Paired metamorphic belts.
8. Metasomatism.
9. Geobarometry.
10. Neosome.
11. Slate.
12. Granite gneiss.

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

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

13. Limits of metamorphism.
14. Formation and classification of foliation.
15. Explain the equilibrium mineral assemblages concept in metamorphism.
16. Classification of metamorphic facies based on pressure.
17. Describe the difference between prograde and retrograde metamorphism.

18. Give an account of mineral reactions during medium pressure metamorphism of pelitic rocks.
19. Metamorphism of calcareous rocks.

(Ceiling: 30 Marks)

Part C (Essay questions)

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

20. Describe the classification scheme for metamorphic rocks.
21. Explain the effects of metamorphism on basic igneous rocks.

(1 × 10 = 10 Marks)
