

23I502

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Name:

Reg.No:

FIFTH SEMESTER M.Sc. INTEGRATED GEOLOGY DEGREE EXAMINATION, NOVEMBER 2025

(CBCSS)

(Regular/Supplementary/Improvement)

CC20GLO5IB06 / CC23GLO5IB06 - METAMORPHIC PETROLOGY

(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. Directed pressure.
2. Regional metamorphism.
3. Classification of Metamorphic rocks.
4. Porphyroblastic texture.
5. ACF diagram.
6. High grade metamorphism.
7. Hornfels.
8. Sanbagawa facies series.
9. Polymorphs of Al_2SiO_5 .
10. Slate.
11. Hornblende gneiss.
12. Greisenization.

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

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

13. Limits of metamorphism.
14. Explain thermal and hydrothermal metamorphism.
15. Explain shock metamorphism.
16. Explain the process of metamorphic differentiation.
17. Barrovian metamorphic sequence.

18. Metamorphic mineral assemblages of calcareous rocks.
19. Explain the effects of metamorphism on ultramafic rocks.

(Ceiling: 30 Marks)

Part C (Essay questions)

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

20. Give an account of various metamorphic structures and its significance.
21. Give an account of prograde and retrograde metamorphism.

(1 × 10 = 10 Marks)
