

21I501

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Name:

Reg.No:

FIFTH SEMESTER M.Sc. INTEGRATED GEOLOGY DEGREE EXAMINATION, NOVEMBER 2023

(CBCSS)

(Regular/Supplementary/Improvement)

CC20I GLO5I B05 - IGNEOUS 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. Magma.
2. Volcanic froth.
3. Sheet Joints.
4. Aphanitic.
5. Unicomponent Magma.
6. Liquidus and solidus.
7. Soret Effect.
8. Syenite.
9. Diorite.
10. Camptonite lamprophyres.
11. Dunite.
12. Anorthosite.

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

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

13. Intrusive igneous forms.
14. Shands-Holmes classification.
15. Explain the merits and demerits of CIPW classification.
16. IUGS classification of plutonic rocks.
17. Crystallization of Forsterite - Silica System.

18. Describe the classification of granitic rocks.

19. Gabbro.

(Ceiling: 30 Marks)

Part C (Essay questions)

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

20. Explain the crystallisation of Albite- Anorthite system.

21. Explain the petrography and classification of Syenite clan of rocks.

(1 × 10 = 10 Marks)
