

22I501

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Name:

Reg.No:

FIFTH SEMESTER M.Sc. INTEGRATED GEOLOGY DEGREE EXAMINATION, NOV. 2024

(CBCSS - PG)

(Regular/Supplementary/Improvement)

CC20 GLO5 IB05 - 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. Phacolith.
2. Sheet Joints.
3. Idiomorphic Texture.
4. Calc alkalic suite and alkalic suite.
5. Limitations of CIPW classification.
6. QAPF Diagram.
7. Unicomponent Magma.
8. Thermogravitational diffusion.
9. Common textures shown by granite.
10. Syenite.
11. Diorite.
12. Pegmatite.

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

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

13. Types of Magma.
14. Petrogenetic significance of Diopside- Anorthite system.
15. Solid solution in plagioclase feldspar.
16. Describe the texture and mineralogy of granodiorite.
17. Describe the texture and mineralogy of gabbro.

18. Classification of lamprophyre.

19. Describe the petrography and origin of Carbonatites and lamproites.

(Ceiling: 30 Marks)

Part C (Essay questions)

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

20. Describe the various forms of Intusive and Extrusive igneous rocks with neat sketches.

21. Explain the Crystallisation of Albite - Orthoclase System.

(1 × 10 = 10 Marks)
