

**FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2025**

(CBCSS - UG)

(Regular/Supplementary/Improvement)

**CC19UGE05B11 - IGNEOUS 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. Parental Magma.
2. Discordant forms.
3. Rapakivi Texture.
4. Hypabyssal rock.
5. Norm.
6. Labile Region.
7. Zoning in Plagioclase.
8. Common textures shown by granodiorite.
9. Mineralogy of syenite.
10. Basalt.
11. Dunite.
12. Harzburgite.

**(Ceiling: 20 Marks)****Part B (Short essay questions - Paragraph)**Answer ***all*** questions. Each question carries 5 marks.

13. Pyroclastic deposits.
14. Igneous Rock structures.
15. IUGS classification of ultramafic rocks.
16. Melting of Diopsidite Anorthite system.

17. Magmatic Differentiation.
18. SIAM classification of granitoids.
19. Lamprophyre.

**(Ceiling: 30 Marks)**

**Part C (Essay questions)**

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

20. Explain the Melting of Forsterite- Silica system.
21. Explain the petrography and classification of diorite clan of rocks.

**(1 × 10 = 10 Marks)**

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