

24U313S

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Name:

Reg.No:

THIRD SEMESTER B.Sc./M.Sc. INTEGRATED GEOLOGY DEGREE EXAMINATION, NOV. 2025

(CBCSS - UG)

CC19UGEO3B05 / CC20GLO3IB03 / CC23GLO3IB03 -

CRYSTALLOGRAPHY AND MINERALOGY

(B.Sc. Physics - Complementary Course - Supplementary/Improvement)

(M.Sc. Integrated Geology - Regular/Supplementary/Improvement)

(2019 to 2023 Admissions)

Time : 2.00 Hours

Maximum : 60 Marks

Credit : 3

Part A (Short answer questions)

Answer *all* questions. Each question carries 2 marks.

1. Application of Crystallography.
2. Weiss notation.
3. Holohedral forms.
4. Diploid.
5. Hemimorphic class of tetragonal system.
6. Trapezohedral class of tetragonal system.
7. Symmetric elements of Hemimorphic class.
8. Symmetry elements of Normal class of Triclinic system.
9. Cyclin twin.
10. F.C.C.
11. Displacive polymorphism.
12. Adamantine Lustre.

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

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

13. Laws of crystallography.
14. Symmetry elements of Normal class of Hexagonal system.
15. Symmetry elements of Rhombohedral class.
16. Normal class of Monoclinic system.

17. Scope and aim of mineralogy.
18. Draw the neat sketches of different types of silicate structures.
19. Isomorphism.

(Ceiling: 30 Marks)

Part C (Essay questions)

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

20. Describe the symmetry elements and forms present in the normal class of the Cubic system.
21. Describe the symmetry elements and forms present in the normal class of the orthorhombic system.

(1 × 10 = 10 Marks)
