

23U313

(Pages: 2)

Name: .....

Reg.No: .....

**THIRD SEMESTER B.Sc./M.Sc. INTEGRATED GEOLOGY DEGREE EXAMINATION,  
NOVEMBER 2024**

(CBCSS - UG)

(Regular/Supplementary/Improvement)

**CC19U GEO3 B05 / CC20 GLO3 IB03 / CC23 GLO3 IB03 -**

**CRYSTALLOGRAPHY AND MINERALOGY**

(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. Form.
2. Normal class.
3. Axes of symmetry in cubic systems.
4. Ditetragonal prisms.
5. Sphenoidal class of tetragonal system.
6. Hexagonal pyramid of second order.
7. Pedions.
8. Symmetry elements of Trapezohedral class.
9. Unit Cell.
10. Isomorphism.
11. Pseudomorphism.
12. Radioactivity of a mineral.

**(Ceiling: 20 Marks)**

**Part B** (Short essay questions - Paragraph)

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

13. Laws of crystallography.
14. Pyritohedral Class.
15. Forms of Normal class of Orthorhombic system.
16. Normal class of Monoclinic system.

17. Normal class of Triclinic system.
18. Twin operations.
19. Scope and aim of mineralogy.

**(Ceiling: 30 Marks)**

**Part C (Essay questions)**

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

20. Describe symmetry elements with examples and neat diagrams. Also briefly describe about the crystal systems.
21. Explain the structure and classification of Silicates.

**(1 × 10 = 10 Marks)**

\*\*\*\*\*