

22U313

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Name:

Reg.No:

THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2023

(CBCSS - UG)

(Regular/Supplementary/Improvement)

CC19U GEO3 B05 - 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. Solid angle in crystal.
2. Enantiomorphic forms.
3. Symmetry elements of galena.
4. Basal Pinacoid.
5. Spheniodal class of tetragonal system.
6. Symmetry elements Tripyramidal class.
7. Orthodomes.
8. Symmetry elements of Normal class of Triclinic system.
9. Penetration twin.
10. Examples of Mineraloid.
11. Isomorphism.
12. Antiperthite.

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

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

13. Crystal forms.
14. Tripyramidal class of Tetragonal system.
15. Forms of Normal class of Hexagonal system.
16. Trapezohedral class of rhombohedral division.

17. Normal class of Orthorhombic system.
18. Bravais lattices.
19. Types of solid solution.

(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. Explain the structure and classification of Silicates.

(1 × 10 = 10 Marks)
