

21U313

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Name:

Reg.No:

THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2022

(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. Face.
2. Miller Indices.
3. Trapezohedron.
4. Tetrahedral class.
5. Pedions.
6. Scalenohedron.
7. Macrodomes.
8. C-Pinacoid.
9. Secondary twin.
10. Examples of Minerals.
11. Coupled solid solution.
12. Astersim.

(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 Tetragonal system.
15. Tripyramidal class of Tetragonal system.
16. Spheniodal Class.

17. Normal class of Triclinic system.
18. Types of unit cell.
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 hexagonal system.
21. Explain the structure and classification of Silicates.

(1 × 10 = 10 Marks)
