

20U312

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Name:

Reg.No:

THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2021

(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. Crystal.
2. Crystallographic axis.
3. Type Mineral.
4. Symmetry elements of Pyritohedral class.
5. Ditetragonal pyramids.
6. Symmetry elements of Tetraapezohedral class of Tetragonal system.
7. Rhombohedron.
8. Symmetry elements of Monoclinic system.
9. Staurolite law.
10. Phyllosilicates.
11. Polytypism.
12. Specific gravity.

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

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

13. Normal Class of cubic system.
14. Tripyramidal class of Tetragonal system.
15. Spheniodal Class.
16. Normal class of Orthorhombic system.
17. Scope and aim of mineralogy.
18. Characteristics of a crystal lattice.
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. Write an essay on various physical properties of minerals.

(1 × 10 = 10 Marks)
