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(Pages: 2)

Name: .....

Reg.No: .....

**THIRD SEMESTER M.Sc INTEGRATED GEOLOGY DEGREE EXAMINATION, NOV. 2022**

(CBCSS - PG)

(Regular/Supplementary/Improvement)

**CC20U GEO3 IB03 - CRYSTALLOGRAPHY AND MINERALOGY**

(Geology)

(2020 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. Law of constancy of symmetry.
2. Holohedral forms.
3. Pyritohedral class.
4. Ditetragonal prisms.
5. Hemimorphic class of tetragonal system.
6. Third order prisms in Hexagonal system.
7. Symmetry elements of Barite.
8. Clinodomes.
9. Twin axis.
10. Primitive unit cell.
11. Solid solution.
12. Submetallic lustre.

**(Ceiling: 20 Marks)**

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

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

13. Crystal forms.
14. Spheniodal Class.
15. Prisms.
16. Rhombohedral hemimorphic class.

17. Normal class of Triclinic system.
18. Scope and aim of mineralogy.
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. Explain the structure and classification of Silicates.

**(1 × 10 = 10 Marks)**

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