

19U312

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Name:

Reg.No:

THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2020

(CBCSS - UG)

CC19U GEO3 B05 - CRYSTALLOGRAPHY AND MINERALOGY

(Geology - Core Course)

(2019 Admission - Regular)

Time : 2.00 Hours

Maximum : 60 Marks

Credit : 3

Part A (Short answer questions)

Answer *all* questions. Each question carries 2 marks.

1. Specific gravity of Minerals.
2. Plane of symmetry.
3. Symmetry elements of plagioclase class.
4. Symmetry elements of galena.
5. Pyramid of first order.
6. Trapezohedral class of tetragonal system.
7. Macrodomes.
8. Symmetry elements of Normal class of Triclinic system.
9. Spinel law.
10. Examples of Mineraloid.
11. Isomorphism.
12. Complete solid solution.

(Ceiling: 20 Marks)

Part B (Short essay questions)

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

13. Laws of twinning in crystals.

14. Forms of Normal class of Cubic System.
15. Forms of Normal class of Hexagonal system.
16. Hemimorphic class.
17. Normal class of Monoclinic system.
18. Characteristics of a crystal lattice.
19. Different phenomenon related with colour of a mineral.

(Ceiling: 30 Marks)

Part C (Essay questions)

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

20. Describe the symmetry elements and forms present in the rhombohedral division
21. Explain the structure and classification of Silicates?

(1 × 10 = 10 Marks)
