

20U408

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Name:

Reg.No:

FOURTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2022

(CBCSS - UG)

(Regular/Supplementary/Improvement)

CC19U GEO4 B07 - OPTICAL AND DESCRIPTIVE 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. Dispersion.
2. Canada balsam.
3. Biaxial minerals.
4. Positive sign of elongation.
5. Symmetrical extinction.
6. Calcic olivines.
7. Structural formula of Garnets.
8. Clinopyroxene.
9. Myrmekite.
10. Occurrence of epidotes.
11. Chlorite.
12. Uses of Sphene.

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

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

13. Interference colour.
14. Optical properties under plane polarized light.

15. Optical and Physical properties of Scapolite.
16. Aluminosilicate polymorphs.
17. Optical and Physical properties of Spinel.
18. Chemistry of amphiboles.
19. Chemistry, mode of occurrence and uses of Topaz.

(Ceiling: 30 Marks)

Part C (Essay questions)

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

20. Write an essay on methods of plane Polarization. Add a short note on construction of nicol prism.
21. Describe the mineralogy, structure, chemistry, optical and physical properties, modes of occurrence and uses of Mica.

(1 × 10 = 10 Marks)
