

22U408

(Pages: 2)

Name:

Reg.No:

FOURTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2024

(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. Crest and trough of a wave.
2. Constructive interference.
3. Obtuse bisectrix.
4. Negative sign of elongation.
5. Wavy extinction.
6. Describe the rocks having olivine as major constituents.
7. Melanite.
8. Cleavages in pyroxenes.
9. Alkali feldspar.
10. Occurrence of epidotes.
11. Chlorite.
12. Topaz.

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

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

13. Becke line test.
14. Methods of producing plane polarized light.
15. Optical and Physical properties of Mica.
16. Structure and chemistry of Quartz.

17. Modes of occurrence and uses of Spinel.
18. Chemistry, mode of occurrence and uses Talc.
19. Chemistry, mode of occurrence and uses of Spinel.

(Ceiling: 30 Marks)

Part C (Essay questions)

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

20. Write an essay on biaxial minerals. Describe briefly about biaxial indicatrix and determination of optic sign.
21. Structure, Chemistry, Optical and Physical properties, mode of occurrences and uses of Amphibole group of minerals.

(1 × 10 = 10 Marks)
