

20U642S

(Pages: 2)

Name:

Reg. No:

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2023

(CUCBCSS-UG)

CC15U GL6 B19 – ORE FORMING PROCESSES

(Geology – Core Course)

(2015 to 2018 Admissions – Supplementary/Improvement)

Time: Three Hours

Maximum: 80 Marks

PART A

Answer *all* questions. Each question carries 1 mark.

1. Define chalcophile element.
2. The fibrous silky variety of serpentine considered the most important type of asbestos.
3. Unusually rich metallic mineral assemblages which yields a good profit.
4. Ore deposits later in origin than host rock.
5. The black beach sand of Kerala is renowned for its content
6. Interlacing network of ore-bearing fine veins that traverses a rock
7. Major Lead and Zinc deposits of India is found in Metallogenic Province.
8. The host rock of diamond.
9. Give two examples of non-metallic minerals formed by metamorphism.
10. The type of hydrothermal deposits characterized by high temperature, shallow depth of formation and rapid cooling.

(10 × 1 = 10 Marks)

Part B (Short Answer Type Question)

Answer any *ten* questions. Each question carries 2 marks.

- | | |
|-----------------------------|-----------------------------------|
| 11. Gangue Minerals. | 17. Skarns. |
| 12. Syngenetic deposits. | 18. Gash Veins. |
| 13. Tenor. | 19. Gossans. |
| 14. Orthomagmatic deposits. | 20. Siderophile. |
| 15. Sublimates. | 21. Bonanza. |
| 16. Mesothermal. | 22. Metallogenic Epochs of India. |

(10 × 2 = 20 Marks)

Part C (Paragraph Type Question)

Answer any *five* questions. Each question carries 6 marks.

23. Metallogenic Provinces of India.
24. Structural Controls of ore localization.

25. Metamorphic deposits.
26. Cavity filling deposits.
27. Placer deposits.
28. Bateman's classification of mineral deposits.
29. Replacement deposits.
30. Contact Metasomatic deposits.

(5 × 6 = 30 Marks)

Part D (Essay Type Questions)

Answer any *two* questions. Each question carries 10 marks.

31. Write an essay on Lindgren's classification of mineral deposits.
32. Write an essay on the Magmatic deposits.
33. Write an essay on the oxidation and supergene sulphide enrichment deposits.
34. Write a brief essay on geologic thermometers.

(2 × 10 = 20 Marks)
