

17U623

(Pages: 2)

Name:

Reg. No.....

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS-UG)

(Regular/Supplementary/Improvement)

CC15U GL6 B19 - ORE FORMING PROCESSES

Geology - Core Course
(2015 Admission onwards)

Time: Three Hours

Maximum: 80 Marks

Draw neat sketches wherever necessary

Part A

Answer *all* questions in word or one sentence. Each question carries 1 mark.

1. The structure resembles honey combs which serve as a guide for the exploration of supergene sulphide enriched mineralization.
2. What is Rapitan BIF?
3. The potential of an ore bearing fluid to accept or donate ions.
4. Interlacing networks of ore bearing fine vein-lets that traverses a rock.
5. What is pH of an ore bearing solution?
6. Hot ascending mineralizing solution which act as a source for deposition of economic minerals.
7. What is Bonanza?
8. Placer deposits associated with hill slopes formed from weathered materials.
9. The black beach sands of Kerala is renowned for its content.
10. What is amgydaloidal basalt?

(10 x 1 = 10 Marks)

Part B (Short Answer Type Questions)

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

11. Ore shoots.
12. Tenor and price of metals.
13. Sublimation.
14. Residual Deposits.
15. Iron hat.
16. Gangue minerals.
17. Lode deposits.
18. Soapstone.

19. Chrysotile.
20. Kodurite.
21. Pseudomorphs.
22. Graphite.

(10 x 2 = 20 Marks)

Part C (Paragraph Type Questions)

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

23. Chemical reactions involved in supergene enrichment process.
24. Physical and structural controls of ore localization.
25. Metallogenic provinces of India.
26. Sillimanite group of minerals.
27. Stratiform and strata bound mineral deposits.
28. Process of metasomatism and skarns.
29. Mineral deposits formed by metamorphic process.
30. Geochemical distribution of elements.

(5 x 6 = 30 Marks)

Part – D (Essay type questions)

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

31. Give an account of the historical development of Economic Geology. Add a note on Lindgren's classification of mineral deposits.
32. Explain the early and late stage process of formation of magmatic deposits.
33. Describe the hydrothermal process of genesis of economically important mineral deposits.
34. Discuss the sedimentary process and cycles involved in the formation of mineral deposits.

(2 x 10 = 20 Marks)
