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(Pages: 2)

Name:

Reg. No.....

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2022

(CUCBCSS-UG)

CC15U GL6 B19 – ORE FORMING PROCESSES

(Geology - Core Course)

(2016 to 2018 Admissions - Supplementary/Improvement)

Time: Three Hours

Maximum: 80 Marks

Draw neat diagrams wherever necessary.

Part- A

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

1. Intensely oxidized, weathered or decomposed rock, usually the upper and exposed part of an ore deposit or mineral vein.
2. Metallic content of ore.
3. Mineral deposit that formed later than the enclosing rocks a mineral deposit that formed later than the enclosing rocks.
4. Natural concentration of heavy minerals caused by the effect of gravity on moving particles.
5. A mineral or mineral aggregate that yields information concerning the limits of temperature within which it was formed.
6. Zone found near the earth's surface that forms as a result of chemical decomposition of unstable minerals under the action of surface waters and groundwater.
7. A period of time during which a significant concentration of deposits of one metal formed in one or more provinces.
8. An example for mineral deposits formed by chemical process.
9. According to Lindgren's classification, a hydrothermal deposit which is formed at 300 °C to 500 °C and at very high pressure is
10. The non-metallic minerals associated with ore minerals which are usually discarded are called

(10 × 1 = 10 Marks)

Part- B

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

11. Contact metasomatic process and deposits.
12. Skarn deposits.
13. Cavity filling deposits.

14. Ore shoot.
15. Evaporites.
16. Geochemical affinity of elements.
17. Eolian placer deposits.
18. Grade of ore.
19. Gossan
20. Epigenetic and syngenetic deposits.
21. Asbestos minerals.
22. Tenor of ore.

(10 × 2 = 20 Marks)

Part- C

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

23. Control of ore localization.
24. Metallogenic epochs and provinces.
25. Formation of Asbestos.
26. Residual concentration and deposits.
27. Wall rock alteration.
28. Metamorphic deposits.
29. Mineral deposits of Kerala.
30. Oxidation and supergene sulphide enrichment.

(5 × 6 = 30 Marks)

Part- D

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

31. Explain genetic classification of mineral deposit. Elaborate on Lindgren and Bateman classification of mineral deposits with neat sketches.
32. Describe the sedimentary process associated with mineral deposits and principles involved in sedimentation. Add a note on cycle of iron deposits.
33. Explain hydrothermal process of mineral deposits with appropriate diagrams.
34. Describe metallogenic epochs and provinces. Add a short note on geologic thermometers and its methods of measurement.

(2 × 10 = 20 Marks)
