

**16U623**

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Name: .....

Reg. No.....

**SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2019**

(Regular/Supplementary/Improvement)

(CUCBCSS-UG)

**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. Each question carries 1 mark.

1. The estimated portion of a mineral resource.
2. Mineral deposits derived from gaseous emanations.
3. Unusually rich metallic mineral assemblage which yields a good profit.
4. The interlacing network of small veinlets traversing a rock is called \_\_\_\_\_.
5. What is Raptian BIF type?
6. Nearly vertical cylindrical body derived from magma which hosts disseminated precious stones.
7. What is Ochre?
8. Ore deposits later in origin than host rock.
9. What is borax?
10. A mineral whose outward crystal form is that of another mineral which is characteristic of hydrothermal replacement deposit.

**(10 x 1 = 10 Marks)**

**Part - B**

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

11. Graphite and Diamond.
12. Tonnage factor of mineral deposits.
13. Geode.
14. Stratiform mineral deposit.
15. Geo- thermometer
16. Gossan.

17. Shear zone.
18. Hydrothermal gold deposits.
19. Zone of oxidation.
20. Saddle reef.
21. Metallogenic epoch.
22. Manganese nodules.

**(10 x 2 = 20 Marks)**

**Part - C**

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

23. Banded Iron Formation.
24. Ground preparation and wall alteration of hydrothermal mineral deposition
25. Chemical reactions involved in Supergene enrichment process.
26. Immiscible liquid segregation
27. Placer deposits.
28. Structural controls of ore localization.
29. Types of ascending mineralizing solutions.
30. Metallogenic provinces of India

**(5 x 6 = 30 Marks)**

**Part - D**

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

31. Explain the process of formation of magmatic mineral deposits.
32. Explain the process of formation of contact metasomatic mineral deposits.
33. Give an account of the historical development of Economic Geology. Add a note on Lindgren's classification of mineral deposits.
34. Explain the sedimentary cycle and process of formation of mineral deposits.

**(2 x 10 = 20 Marks)**

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