

15U623

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Name:

Reg. No.

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, MARCH 2018

(CUCBCSS-UG)

CC15U GL6 B19 - ORE FORMING PROCESSES

Geology - Core Course

(2015 Admission)

Time : Three hours

Maximum : 80 Marks

Draw neat sketches wherever necessary.

Part A

Answer *all* questions in one word or one sentence each.

Each question carries 1 mark.

1. The metallic content of an ore is known as _____.
2. Who is considered as the 'Father of Economic Geology'?
3. The chemical elements within the earth that have a strong affinity for oxygen.
4. Diamond pipes of South Africa are best examples of early magmatic deposits formed by the process of _____.
5. An interlacing network of small ore bearing veinlets and stringers traversing a mass of rock.
6. Give two examples of non-metallic minerals formed by metamorphism.
7. Placer deposits are formed by the process of natural _____ separation of heavy from light minerals by means of moving water or air.
8. The type of hydrothermal deposits characterized by high temperature, shallow depth of formation and rapid cooling.
9. Of the three types of weathering, the _____ weathering is of paramount significance for the formation of residual deposits.
10. The process of ore formation generally associated with volcanism and fumaroles.

(10 x 1 = 10 Marks)

Part B

(Short Answer Type Questions)

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

11. Gangue minerals.
12. Syngenetic deposits.
13. Immiscible liquid segregation.
14. Wall rock alteration.

15. Pyrometasomatism.
16. Orthomagmatic deposits.
17. Saddle reefs.
18. Eluvial placers.
19. Lithophyte elements.
20. Shear zone mineralization.
21. Gossans.
22. Hydrothermal fluid.

(10 x 2 = 20 Marks)

Part C

(Paragraph Type Questions)

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

23. Ore shoots and bonanzas.
24. Geologic thermometers.
25. Lindgren's classification of mineral deposits.
26. Controls of ore localization.
27. Factors affecting Residual concentration.
28. Stratiform and Stratabound deposits.
29. Criteria of formation of Replacement deposits.
30. Cycles of Iron and Manganese.

(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 major metallogenic epochs and provinces of the earth.
32. Describe the oxidation and supergene sulphide enrichment processes of ore mineral deposits.
33. Explain early and late magmatic processes and deposits.
34. Discuss contact metasomatic processes highlighting on the processes, effects and resulting mineral deposits.

(2 x 10 = 20 Marks)
