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(Pages : 2)

Name.....

Reg. No.....

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, MARCH 2017

(CUCBCSS—UG)

Geology

GLY 6B 20—INDIAN MINERAL DEPOSITS

Time : Three Hours

Maximum : 80 Marks

Draw neat sketches wherever necessary.

Part A

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

1. In which state is the Ramagiri gold-field located ?
2. The diamond deposits of Wajrakarur in the Anantpur district of Andhra Pradesh are an example of _____ deposits.
3. The chemical composition of chromite.
4. Kalahandi in the state of Orissa is famous for the deposits of _____.
5. From which type of rocks can graphite of workable quantities be extracted ?
6. The principal mineral constituent of drilling mud used in petroleum industry.
7. Argentite is a sulphide ore mineral of _____.
8. Kyanite after being calcined and grained to powder is used as a _____ material.
9. The other name for bio-chemical process of formation of coal.
10. One of the world class deposits of heavy mineral sands in the coastal tracts of Kerala between Neendakara and Kayamkulam is commonly known as _____ deposit.

(10 × 1 = 10 marks)

Part B (Short Answer Type Questions)

Answer any ten questions.

11. Hutti Gold Field.
12. Malanjkhand deposits.
13. Pyrolusite.
14. Gonditic ores.
15. Byrapura and Tagadur deposits.
16. East Coast Bauxite.

Turn over

17. Asbestos.
18. Emery and garnet.
19. Clay minerals.
20. Refractories.
21. Tertiary coals in India.
22. Bombay High.

(10 × 2 = 20 marks)

Part C (Paragraph Type Questions)

Answer any five questions.

23. Important properties and Indian distribution of ore minerals of lead and zinc.
24. Gypsum and Mica as Industrial minerals.
25. Abrasive minerals.
26. Gemstone occurrences in India.
27. Classification and composition of coal.
28. Important oil fields of India.
29. Clay deposits of Kerala.
30. Strategic, critical and essential minerals.

(5 × 6 = 30 marks)

Part D (Essay Type Questions)

Answer any two questions.

31. Describe the physical properties, chemical composition, uses, modes of occurrence and distribution in India of the important ore minerals of Iron.
32. Explain the properties, mode of occurrence and distribution in India of the important radioactive minerals of Thorium and Uranium.
33. Give an account of petroleum as a fossil fuel highlighting on its composition, uses and theories of origin. Add a note on oil traps.
34. Discuss the salient aspects of India's current National Mineral Policy. Add a note on how the policy aims at the development of strategic mineral resources.

(2 × 10 = 20 marks)