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Name.....

Reg. No.....

FOURTH SEMESTER M.Sc. DEGREE EXAMINATION, JUNE 2016

(CUCSS)

Applied Geology

GEL 4C 12—ECONOMIC GEOLOGY

(2014 Admissions)

Time : Three Hours

Maximum : 36 Weightage

*Draw diagrams wherever necessary.**Answer all questions***Part A***Answer all the questions in two or three sentences each.*

- | | |
|-----------------------|----------------------|
| 1. Strategic mineral. | 2. Tenor. |
| 3. Vickers Hardness. | 4. Epithermal. |
| 5. Martite. | 6. Mantos. |
| 7. Kimberlite | 8. REE. |
| 9. Tertiary coal. | 10. Monazite. |
| 11. Maceral. | 12. Calorific value. |
| 13. Skam. | 14. Crude oil. |

(14 × 1 = 14 weightage)

Part B*Answer any seven questions, each not exceeding a paragraph.*

5. What are gas clathrates and their use ?
6. Why are salt domes good petroleum traps ?
7. MM (R and D) act.
8. Pb-Zn deposits of Rajasthan.
9. Supergene sulphide enrichment.
10. Mineralization in Archaean Greenstone Belts.

Turn over

21. Ore mineralization associated with anorthositic rocks.
22. Manganese ore deposits in India.
23. Beach placers.
24. Banded iron formations of Karnataka.

(7 × 2 = 14 weightage)

Part C

Write any **two** essays on the following.

25. Explain the origin, association, alterations, mineralization and plate tectonic setting of porphyry copper deposits.
26. What are Gondwana coals ? Explain their origin and occurrence in India.
27. Describe the mode of occurrence, composition and origin of chromite deposits associated with ultramafic rocks.
28. Explain the origin of Volcanogenic Massive Sulphide deposits and their associate ore mineralization.

(2 × 4 = 8 weightage)