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Name: .....

Reg.No: .....

**SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2023**

(CBCSS - PG)

(Regular/Supplementary/Improvement)

**CC19P GEL2 C06 - ECONOMIC GEOLOGY**

(Applied Geology )

(2019 Admission onwards)

Time : 3 Hours

Maximum : 30 Weightage

**Part-A**

Answer any *four* questions. Each question carries 2 weightage.

1. Clarke number.
2. Deposits produced by Chemical process of concentration.
3. Porphyry Cu deposits.
4. Tourmalinization.
5. Titanium-iron oxide occurrence.
6. Lithological units hosting U mineralisation of Jaduguda.
7. Geologic setting of iron ore deposits of Kudremukh.

**(4 × 2 = 8 Weightage)**

**Part-B**

Answer any *four* questions. Each question carries 3 weightage.

8. Grinding and Impregnation.
9. Thermometry of ores using fluid inclusions.
10. Metallogenic province with example.
11. Layered and alpine type intrusion and associated ore bodies.
12. Critical and essential minerals of India.
13. Theories related to origin of coal.
14. Exploitation of gas hydrates.

**(4 × 3 = 12 Weightage)**

**Part-C**

Answer any *two* questions. Each question carries 5 weightage.

15. Describe the distribution form and origin of Stratiform deposits.

16. Explain about Chromite occurrence, forms, settings and concentration.
17. Describe the elements of National Mineral Policy with a special emphasis on the MMDR act.
18. Explain the physical properties and chemical composition of petroleum.

**(2 × 5 = 10 Weightage)**

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