

21P436

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Name:

Reg.No:

FOURTH SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2023

(CBCSS - PG)

(Regular/Supplementary/Improvement)

CC19P GEL4 E04A - EXPLORATION GEOLOGY

(Applied Geology)

(2019 Admission onwards)

Time : 3 Hours

Maximum : 30 Weightage

Part-A

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

1. Describe byproduct and coproduct of mineral resources with some examples.
2. Define pathfinder and indicator elements.
3. Explain how oxidation potential affect mobility of elements.
4. Describe clastic, hydromorphic, and biogenic anomalies in soil.
5. Explain Electromagnetic method.
6. Describe single ended shooting technique.
7. Discuss Half life period.

(4 × 2 = 8 Weightage)

Part-B

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

8. Describe the separation of ore minerals using froath floatation method.
9. Discuss the application of primary dispersion pattern in geoexploration.
10. Discuss Seismic and resistivity methods.
11. Conclude Electrode modifications in Resistivity Survey methods.
12. Describe the factors influencing the seismic wave velocities.
13. Discuss the seismic refraction survey of single interface in Horizontal layer case.
14. Summarize Scintilometers.

(4 × 3 = 12 Weightage)

Part-C

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

15. Explain the various methods of ore reserve estimation.

16. Discuss biochemical anomaly and geobotanical survey.
17. Discuss the magnetic survey methods and its applications.
18. Infer importance of Radio active well logging methods.

(2 × 5 = 10 Weightage)
