22P434 (Pages: 2) Name: .....

Reg.No: .....

FOURTH SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2024

(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 threshold value, background range, and contrast of geochemical anomalies.
3. Explain how solubilty of salts affect mobility of elements.
4. Describe geobotanical indicators.
5. Explain SP method.
6. What is the basis of gravity method?
7. Discuss Induction Logging.

(4 × 2 = 8 Weightage)

Part-B

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

8. Describe the separation of ore minerals based on density contrast.
9. Discuss the application of primary dispersion pattern in geoexploration.
10. Illustrate Potentil drop method.
11. Explain uses of Geophysical methods.
12. Discuss the reduction of magnetic observations.
13. Describe seismic refraction method.
14. Review GM Counters.

(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 the principles and methods of geochemical exploration.

17. Discuss the application of seismic methods in exploration.

18. Importance of Radio active well logging methods.

(2 × 5 = 10 Weightage)

****