

**18P361**

(Pages: 2)

Name.....

Reg. No.....

**THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2019**

(Regular/Supplementary/Improvement)

(CUCSS-PG)

**CC15P GEL3 C09 - EXPLORATION GEOLOGY**

(Applied Geology)

(2015 Admission onwards)

Time: Three Hours

Maximum: 36 Weightage

I. Short Answer Type. Answer *all* questions. Each question carries 1 weightage.

1. Trenching.
2. Chip and Grab sampling.
3. Dispersion.
4. Pathfinder elements.
5. Convolution.
6. Drift Correction.
7. Sonic log.
8. Transducers.
9. AFMAG method.
10. Telluric currents.
11. Geiger Counter.
12. Microlog.
13. Relief.
14. Assay.

**(14 x 1 = 14 Weightage)**

II. Short Essay Type. Answer any *seven* questions. Each question carries 2 weightage.

15. Surface geological exploration methods.
16. Geobotanical indicators.
17. Primary and secondary dispersion.
18. Instruments used in electrical method.
19. Field procedures in SP method.
20. Gravity Anomalies.
21. Refraction survey.
22. Types of radiometric counters.
23. Thermal logging of boreholes.
24. Hydrophones.

**(7 x 2 = 14 Weightage)**

III. Essay Type. Answer any *two* questions. Each question carries 4 weightage.

25. Evaluate the procedures involved in the geological exploration for gold.

Or

26. Explain the design of electrical exploration method for the identification of bulk mineral deposits.

27. Explain the principle involved in gravity survey. Add a note on the field methods involved.

Or

28. Describe the principle of well logging in detail. Elaborate on the resistivity logging method.

**(2 x 4 = 8 Weightage)**

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