

15P347

(Pages: 2)

Name:

Reg. No.

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2016

(CUCSS - PG)

(Applied Geology)

CC15P GEL3 C09 – EXPLORATION GEOLOGY

(2015 Admission)

Time: Three Hours

Maximum: 36 Weightage

I. Short Answer Type Questions. Answer *all* questions.

1. Pneumatic drills.
2. Calyx drills.
3. Assay value.
4. Leakage anomalies.
5. Gas survey.
6. Bitumen method.
7. Free air correction.
8. Airborne magnetometers.
9. Rayleigh waves.
10. Gamma ray logging.
11. Gravimeter.
12. Core sample.
13. Thermal logs.
14. Diamond bit.

(14 x 1= 14 weightage)

II. Short Essay Type questions. Answer any *seven* questions.

15. Cable tool drilling.
16. Sampling methods in mineral exploration.
17. Ore reserve estimation.
18. Pathfinder elements.

19. Geobotanical survey techniques.
20. Self potential methods.
21. Gravity anomalies.
22. Types of seismic survey.
23. Seismic instruments and records
24. Sonic logging of boreholes.

(7 x 2 = 14 weightage)

III. Long essay type questions. Answer any *two* questions.

25. Describe the principles and methods of geochemical surveys. Add a note on the various types of geochemical anomalies.

Or

26. Discuss the principles and methods of electrical resistivity survey. Comment on its application in groundwater exploration.

27. Give an account of the magnetic method of geophysical exploration highlighting on its principle, field procedure and interpretations. Add a note on its applications.

Or

28. Discuss the principles, field methods and interpretations of radiometric methods of exploration.

(2 x 4 = 8 weightage)
