

16P350

(Pages: 2)

Name:

Reg. No.

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, OCTOBER 2017

(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 Questions. Answer *all* questions.

1. Channelling.
2. Assaying.
3. Marker elements.
4. Leakage halos.
5. *Ocimum centraliafricanum*.
6. Terrameter.
7. Trace elements.
8. Core gas survey.
9. Geophones.
10. Mud logging.
11. Fan shooting.
12. Radioactivity.
13. Fluxgate magnetometer.
14. Threshold value.

(14 x 1 = 14 weightage)

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

15. Ore reserve estimation.
16. Pathfinder elements.
17. Primary dispersion pattern of deep-seated origin.
18. Geobotanical survey techniques.
19. Geochemical anomalies.
20. Regional and local gravity anomalies.
21. Interpretation of magnetic data.

22. Principles of airborne survey.
23. Principles of radiometric prospecting.
24. Types of counters.

(7 x 2 = 14 weightage)

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

25. Describe the different types of drilling used in the exploration of minerals.

Or

26. Give an account of the different electrical methods of geophysical exploration. Add a note on its application in groundwater exploration.

27. Describe the principles and field operations of seismic method. Comment on its application in oil and gas exploration.

Or

28. Discuss geophysical well logging with reference to its various types.

(2 x 4 = 8 weightage)
