

**17P363**

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Name: .....

Reg. No.....

**THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2018**

(Regular/Supplementary/Improvement)

(CUCSS - PG)

**CC15P GEL3 C09 - EXPLORATION GEOLOGY**

(Applied Geology)

(2015 Admission onwards)

Time : Three Hours

Maximum : 36 Weightage

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

1. Pitting.
2. Groove sampling.
3. Threshold.
4. Pathfinder elements.
5. Rayleigh Waves.
6. Jumper Bars.
7. Gravimeter.
8. Transducers.
9. Bouger anomaly.
10. Geiger counter.
11. Scintillation Counter.
12. Temperature logging.
13. Relief.
14. Grade.

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

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

15. Borehole logging methods.
16. Geobotanical indicators.
17. Geochemical provinces.
18. Principles of self-potential method.
19. Field procedures in IP method.
20. Worden gravimeter.
21. Reich drill.
22. Bore hole logging.
23. Elastic Moduli.

24. Hydrophones.

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

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

25. What is geochemical dispersion? Distinguish between primary and secondary dispersion.

Or

26. Explain the design of drilling programme in detail.

27. Describe the principle involved in radiometric survey. Add a note on the field methods involved.

Or

28. Describe Earth's magnetic field and explain the applications of magnetic method giving suitable examples.

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

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