

15P349

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Name.....

Reg. No.....

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2016

(CUCSS - PG)

(Applied Geology)

CC15P GEL3 E01 -Remote sensing and Geographic Information System

(2015 Admission)

Time: Three Hours

Maximum: 36 Weightage

I. Answer *all* questions

1. Types of aerial cameras
2. Vector and Raster data
3. SLAR and SAR
4. Important technical information obtained from an aerial photograph.
5. Vertical exaggeration.
6. Drift and Crab.
7. Multiband Satellite remote sensing.
8. Platforms and classification.
9. RADAR
10. Stereoscopes and classification.
11. Mosaic and classification.
12. Atmospheric windows of EMR.
13. Map registration.
14. Components of GIS.

(14 x 1 = 14 weightage)

II. Answer *any seven* questions.

15. Interpretation elements of an aerial photograph.
16. Difference between a photo and imagery.
17. Resolution concepts of satellites.
18. Thermal Infrared - classification and uses.
19. Whisk broom and Push broom scanners.
20. Payloads and scenario.
21. Remote sensing and ground water exploration.
22. Concept of thematic maps.
23. Electromagnetic spectrum.
24. Importance of sidelap and overlap.

(7 x 2 = 14 Weightage)

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

25. Orbits: classifications, merits, demerits. Mention important satellites in every classification.

or

26. Brief history of Indian satellite remote sensing, and important satellites of India and their missions.

27. Application of GIS in various disciplines.

or

28. Brief history of aerial photography.

(2 x 4 = 8 weightage)
