

18P445

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Name.....

Reg. No.....

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2020

(CUCSS - PG)

(Regular/Improvement/Supplementary)

CC15P GEL4 E01 - REMOTE SENSING & GEOGRAPHIC INFORMATION SYSTEM

(Applied Geology)

(2015 Admission onwards)

Time: Three Hours

Maximum: 36 Weightage

PART A

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

1. Whisk broom scanners.
2. Stereoscopy.
3. Panchromatic image.
4. Ground Control Points.
5. Tilt and height displacement.
6. Map digitization.
7. Visible spectrum.
8. False colour composite.
9. Cartosat.
10. Map window.
11. Rubber sheeting.
12. TIN
13. Digitization.
14. Topology.

(14 x 1= 14 Weightage)

PART B

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

15. Passive vs Active sensors.
16. Wien's Displacement Law.
17. Spectral signature.
18. Atmospheric windows.
19. Geosynchronous vs sun-synchronous orbit of satellites.
20. NDVI
21. Features and geometry.

- 22. Vertical exaggeration.
- 23. Concept of Thematic maps.
- 24. Raster vs Vector file formats.

(7 x 2 = 14 Weightage)

PART C

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

- 25. Describe the elements of aerial photo interpretation.

Or

- 26. Discuss the different types of resolutions involved in remote sensing and their implications.

- 27. What is RADAR? Describe how SLAR remote sensing works.

Or

- 28. Discuss the applications of GIS in Geology, particularly in mineral exploration.

(2 x 4 = 8 Weightage)
