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Reg. No. : .....

Name : .....

Third Semester M.Sc. Degree Examination, February 2021

Environmental Sciences

ES 231 : REMOTE SENSING AND GIS

(2018 Admission Onwards)

Time : 3 Hours Max. Marks : 75

I. Write short note on any **ten** of the following.

1. Spectral resolution
2. Vertical exaggeration
3. Map Overlay
4. SPOT satellite
5. Ground truth data
6. Vector and raster data
7. Differential GPS
8. Geostationary satellites
9. Orbit and Swath
10. Platforms
11. Photogrammetry
12. Attribute data

(10 × 2 = 20 Marks)

P.T.O.

II. Answer any **five** of the following.

13. Describe the electromagnetic waves and components of electromagnetic spectrum with a sketch.

14. Explain in detail about DEM and TIN.

15. Describe about aerial cameras and filters.

16. Describe Active and Passive remote sensing.

17. Describe about the elements of image interpretation.

18. Explain map projections.

19. Explain energy interaction with earth surface materials.

(5 × 5 = 25 Marks)

III. Answer any **three** of the following.

20. Write brief note on Geo-Stationary orbit, Sun-Synchronous and polar orbit.

21. Write an essay on image enhancement and image classification of remote sensed data.

22. Write an essay on application of remote sensing and GIS in disaster management.

23. Write an essay on types of sensors and its application in environmental monitoring.

(3 × 10 = 30 Marks)

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