SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2020
(CUCSS - PG)
CC19P ESC2 C10 - REMOTE SENSING AND GIS
(Environmental Science)
(2019 Admissions – Regular)

Time: Three Hours   Maximum: 30 Weightage

I. Answer any *four* questions. Each question carries 2 weightage:

1. What are the different ways of representation of map scale?

2. Differentiate plane surveying and Geodetic surveying.

3. Give an account on imaging and non-imaging sensors and their uses.

4. Differentiate vector and raster data model.

5. Write a brief note on Aerial photogrammetry.

6. Differentiate supervised and unsupervised classification in remote sensing.

7. Write a note on LANDSAT

(4 x 2 = 8 Weightage)

II. Answer any *four* questions. Each question carries 3 weightage:

8. What is topographical map? Explain the interpretation of topographical maps.

9. Explain the scanners used in sensors with neat diagram.

10. Write a brief explanation of compass surveying.

11. What are the factors that affecting the GPS signal to produce optimal result?

12. Explain the principle and concept of remote sensing.

13. Give a detailed account on image restoration and image rectification?

14. Explain EMR as a major source of energy in remote sensing and its interaction with the atmosphere.

(4 x 3 = 12 Weightage)

III. Write an essay on any *two* of the following. Each question carries 5 weightage:

15. Describe the Digital Image Processing Techniques.

16. What are the applications of GIS and remote sensing in the following area?

    a. Agriculture   b. Climate   c. Forestry

17. Explain the spectral characteristics of surface features (soils, vegetations, water)

18. What is map projection? What are the methods used for map projection?

(2 x 5 = 10 Weightage)

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