Reg. No ..... Name **21P2052**

M. Sc DEGREE END SEMESTER EXAMINATION - JULY 2020

SEMESTER 2 : ENVIRONMENTAL SCIENCE

COURSE : **16P2EVST08 : REMOTE SENSING AND GIS**

(For Regular - 2020 Admission & Supplementary - 2019/2018/2017/2016 Admissions)

Time : Three Hours Max. Marks: 75

PART A

Answer any 10 (2 marks each)

1. Write a short note on Planimeter.
2. Define map.
3. Explain the basics of cartography.
4. What is the concept of remote sensing?
5. What are the components of remote sensing?
6. What are the digital image processing techniques?
7. What is Sun synchronous satellite.
8. Write down the the steps of image rectification.
9. Define sensors and its types.
10. Write briefly data 'information' as one component of GIS.
11. What is a spatial reference in Arc GIS?
12. How does the vector data model represent surfaces?

(2 x 10 = 20)

PART B

Answer any 5 (5 marks each)

13. Innumerate different kinds of maps based on its usefulness.
14. What is topographical map? Explain the interpretation of topographical maps.
15. Explain the scope of remote sensing.
16. Briefly describe ERS.
17. Write a note on INSAT.
18. Explain satellite as the most stable platform used in remote sensing .
19. What are the methods of map projection based on developable surface area?
20. Explain the application of GIS in Geology.

(5 x 5 = 25)

PART C

Answer any 2 (15 marks each)

21. Write a note on Indian Remote Sensing program.
22. Describe image interpretation.
23. Explain supervised and unsupervised classification.
24. Explain the vector and raster data model representation of surface features and spatial relationships.

(15 x 2 = 30)