

35112

M.Sc. DEGREE EXAMINATION, OCTOBER / NOVEMBER 2018.

THIRD SEMESTER

Environmental Science

Paper II — REMOTE SENSING AND GIS

Time : Three hours

Maximum : 75 marks

(No additional sheet will be supplied)

PART A — (5 × 3 = 15 marks)

Answer any FIVE questions.

Each question carries 3 marks.

Each answer should not exceed 1 page.

1. Define GIS.
2. Describe the agriculture application of satellite.
3. Explain the SPOT.
4. Write note on water resources.
5. Explain GIS modeling methods available.
6. Write note on GPS applications.
7. Write the applications of GIS.
8. Explain role of GIS in land degradation inventory.

PART B — (4 × 15 = 60 marks)

Answer ALL questions.

Each question carries 15 marks.

Each answer should not exceed 6 pages.

9. Describe the mechanism of energy interaction with atmosphere.

Or

10. Describe the importance of image classification in Remote Sensing.
11. List out the important satellites and their sensors.

Or

12. Explain the role of INSAT series in meteorology.

13. What are the advantages and limitations raster and vector data.

Or

14. Give an account on satellite data requirements for flood zone mapping.

15. How remote sensing and GIS is useful in EIA? Explain with suitable examples.

Or

16. Discuss the remote sensing approach for conducting groundwater pollution studies.

