

2025
RANI RASHMONI GREEN UNIVERSITY
ENVIRONMENTAL SCIENCE
SEMESTER-III
SUBJECT CODE: GEST-33B
Full Marks: 40
Time: 2 Hours

Candidates are required to give their answer in their own words as far as practicable.

Unit-1: Answer any four questions.

2x4=8

1. How is soil classification defined?
2. List any two physical properties of forest soils.
3. Explain what is meant by Joint Forest Participatory Management (JFPM).
4. State the meaning of sustained yield in forestry?
5. What do you understand by radiometric resolution?
6. Give the definition of datum line in remote sensing.

Unit-2: Answer any four questions.

4x4=16

7. Give a brief account of the chemical properties of soil.
8. Identify and explain the major causes of soil erosion.
9. Describe the role of Remote Sensing and GIS in forest management.
10. Write a short note on the nomenclature system of medicinal plants.
11. Distinguish between vector data and raster data used in Remote Sensing.
12. Outline the historical development of GIS in brief.

Unit-3: Answer any two questions.

8x2=16

13. Describe the reclamation and management methods for saline soils.
14. Discuss the influence of time and climate on soil formation.
15. With suitable examples, explain how Remote Sensing and GIS are applied in waste management.
16. Explain how Remote Sensing and GIS techniques help in monitoring and managing urban sprawl.