

Code: 19ES5501D

**III B.Tech - I Semester – Regular Examinations
JANUARY 2022**

**ENVIRONMENT AND ECOLOGY
(COMMON TO CE, CSE, ME & EEE)**

Duration: 3 hours

Max. Marks: 70

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- Note: 1. This question paper contains two Parts A and B.
2. Part-A contains 5 short answer questions. Each Question carries 2 Marks.
3. Part-B contains 5 essay questions with an internal choice from each unit. Each question carries 12 marks.
4. All parts of Question paper must be answered in one place
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PART – A

1. a) Illustrate the functions of ecosystem?
- b) Figure out any two applications of remote sensing.
- c) Outline the atmospheric stability.
- d) What is Chipko movement?
- e) Explain the significance of Environment Impact Analysis?

PART – B

UNIT – I

2. a) What is ecosystem? Discuss the factors affecting ecosystem. 6 M
 - b) Discuss the process of evolution. 6 M
- OR
3. a) Explain the concept of an ecosystem with their structure and function. 6 M
 - b) Figure out the concept of population regulation. 6 M

UNIT – II

4. a) Summarize the use and importance of Forest Resources in India. 6 M
- b) Discuss the concept of Integrated Water Resources Management (IWRM). 6 M

OR

5. a) Define conservations. Describe various methods in soil conservation. 6 M
- b) Elucidate the role of GIS in remote sensing in environment. 6 M

UNIT-III

6. a) Layout the structure of hydrosphere. 6 M
- b) Discuss various scales of meteorology. 6 M

OR

7. a) Give an account on creating data base tables. 6 M
- b) What are the composition differences between lithosphere and biosphere. 6 M

UNIT – IV

8. a) Discuss the role of government in environment protection highlighting some significant acts and policies. 6 M
- b) Outline the goals and objectives in environmental education with reference to India. 6 M

OR

9. a) Write a note on Narmada Bachao Andolan. 6 M
- b) Discuss the Environmental movements in the West-Green Peace. 6 M

UNIT – V

10. a) What is environmental management plan (EMP)? 6 M
Discuss its significance in protection of environment.
- b) Discuss the ecological significance of organic farming. 6 M

OR

11. a) Illustrate the bio-monitoring of air pollution? Plants as 6 M
bio monitors. Discuss.
- b) Give a brief account on analytical approaches of 6 M
environmental monitoring.