

Practice Set
End Semester (2nd Semester) Examination, May 2026

Program: B.Sc. (Hons.)

Agriculture Semester: Second

Course: Environmental Studies and Disaster Management

Course Code: VAC 121

Course Outcomes:

At the end of the course, the student will be able to:

CO1 Introduction to basic concepts of Environment.

CO2 Basics of Ecosystem and environmental pollution along with various laws of environment protection.

CO3 Understanding the disaster, its types and management.

Unit / Module-1

Section: I (5 Marks questions, only Lower order Thinking -LOT)

Sl. No.	Model Questions	Bloom Taxonomy	CO
1.	Define Environmental Studies. State its scope and importance.	Remember	CO1
2.	Explain the multidisciplinary nature of Environmental Studies.	Understand	CO1
3.	Explain briefly the different segments of the environment?	Understand	CO1
4.	Write a short note on the Lithosphere.	Understand	CO1
5.	Explain the Hydrosphere and its importance.	Remember	CO1
6.	Classify natural resources with examples.	Understand	CO1

Section: II (10 Marks questions, only Higher Order Thinking)

Sl. No.	Model Questions	Bloom Taxonomy	CO
7.	Analyze how environmental studies help in understanding the relationship between human activities and environmental degradation.	Analyze	CO1
8.	Evaluate the importance of integrating various disciplines in environmental conservation.	Evaluate	CO1

9.	Analyze the role of Lithosphere, Hydrosphere, and Atmosphere, and discuss their interrelationship in maintaining life on Earth.	Analyze	CO1
10.	Explain the structure of atmosphere by describing its different layers of the atmosphere (Troposphere, Stratosphere, Mesosphere, Thermosphere, and Exosphere) along with their characteristics and importance.	Analyze	CO1
11.	Explain the classification of natural resources in detail. Discuss renewable and non-renewable resources, along with examples, advantages, limitations, and the need for conservation.	Analyze	CO1
12.	Discuss forest resources in detail. Explain their importance, uses, causes of deforestation, environmental impacts, and suggest effective conservation and management strategies.	Analyze	CO1
13	Explain water resources, mineral resources, food resources, energy resources, land resources, and soil resources in detail. Discuss their importance, current issues, overexploitation, and methods for sustainable utilization and conservation.	Analyze	CO1

Unit / Module-2

Section: I (5 Marks questions, only Lower order Thinking -LOT)

Sl. No.	Model Questions	Bloom Taxonomy	CO
14.	Define an ecosystem. Explain its basic structure and functions.	Remember	CO2
15.	Explain briefly the energy flow in an ecosystem with example.	Understand	CO2
16.	Define biodiversity. Mention its types.	Remember	CO2
17.	Explain biodiversity hotspots with examples.	Understand	CO2
18.	Define environmental pollution. List any four types of pollution.	Understand	CO2
19.	Discuss solid waste management. Mention any two methods of waste disposal.	Apply	CO2

Section: II (10 Marks questions, only Higher Order Thinking)

Sl. No.	Model Questions	Bloom Taxonomy	CO
20.	Explain the concept, structure, and functions of an ecosystem. Also describe energy flow with suitable examples.	Analyze	CO2
21.	Describe the different types of ecosystems and their characteristics with examples.	Analyze	CO2
22.	Explain biodiversity and its types in detail. Discuss the importance and value of biodiversity in ecological and economic terms.	Analyze	CO2
23.	Analyze the bio geographical classification of India and discuss major biodiversity hotspots and their significance.	Analyze	CO2
24.	Evaluate the threats to biodiversity. Suggest suitable conservation methods (in-situ and ex-situ conservation).	Evaluate	CO2

25.	Categorize environmental pollution, its causes, effects, and control measures of air, water, and soil pollution in detail.	Analyze	CO2
26.	Explain solid waste management. Describe methods like composting, incineration, pyrolysis, and biogas production along with their advantages and limitations.	Analyze	CO2

Unit / Module-3

Section: I (5 Marks questions, only Lower order Thinking -LOT)

Sl. No.	Model Questions	Bloom Taxonomy	CO
27.	Define disaster and classify its types.	Understand	CO3
28.	Discuss natural disasters with suitable examples.	Remember	CO3
29.	Classify man-made disasters with examples.	Understand	CO3
30.	Classify floods and droughts.	Understand	CO3
31.	Discuss disaster management and state its objectives.	Understand	CO3
32.	Mention the role of NGOs and media in disaster management in India.	Remember	CO3

Section: II (10 Marks questions, only Higher Order Thinking)

Sl. No.	Model Questions	Bloom Taxonomy	CO
34.	Examine the role of human activities in increasing the frequency and intensity of disaster with examples.	Analyze	CO3
35.	Compare the causes and impacts of earthquakes and floods on human settlement.	Analyze	CO3
36.	Assess the significance of public awareness and safety training and discuss the preventive measures for reducing the impact of man-made disaster.	Analyze	CO3
37.	Explain the concept of disaster management and describe the disaster management cycle, including preparedness, response, recovery and mitigation.	Analyze	CO3
38.	Discuss the national disaster management framework of India. Explain financial arrangements and institutional setup.	Evaluate	CO3
39.	Compare the disaster management roles of districts and local administration.	Analyze	CO3
40.	Evaluate international and national strategies in reducing disaster risks.	Analyze	CO3

CO- wise

CO	Q.No.	Marks
CO1	1-13	100
CO2	14-26	100
CO3	27-40	100
Total		300

Unit-wise

Unit	Q.No.	Marks
1	1-13	100
2	14-27	100
3	28-40	100
Total		300

BTL- wise

BTL	Q.No.	Marks
LOT	20	100
HOT	20	200
Total		300

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Disclaimer: - This is a Practice Set. The Question in End semester examination will differ from the Practice Set. This Practice Set is meant for practice only.