

Basavarajeswari Group of Institutions
BALLARI INSTITUTE OF TECHNOLOGY & MANAGEMENT
 (Autonomous Institute under Visvesvaraya Technological University, Belagavi)

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Course Code

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Fifth Semester B.E. Degree Examinations, September / October 2024

ECOLOGY AND ENVIRONMENT

Duration: 3 hrs

Max. Marks: 100

Note: 1. Answer any FIVE full questions choosing ONE full Question from each Module.
 2. Missing data, if any, may be suitably assumed.

<u>Q. No</u>	<u>Question</u>	<u>Marks</u>	<u>(RBTL:CO:PI)</u>
<u>Module-1</u>			
1.	a. Define the term ecosystem. Explain the structures and functions of ecosystem.	10	(1:1:1:6.1)
	b. With a neat sketch, explain the energy flow in ecosystem.	10	(1:1:1:6.1)
(OR)			
2.	a. With a neat sketch, explain the pyramid of biomass with example.	10	(1:1:1:6.1)
	b. With a neat sketch, explain carbon and nitrogen cycle.	10	(1:1:1:6.1)
<u>Module-2</u>			
3.	a. With a neat sketch, explain aquatic and terrestrial ecosystem.	10	(1:2:1:6.1)
	b. List and explain the measures to control the eutrophication of lake ecosystem.	10	(1:2:1:6.1)
(OR)			
4.	a. With a neat sketch, explain the eutrophication of lake ecosystem.	10	(1:2:1:6.1)
	b. Differentiate between aquatic ecosystem and terrestrial ecosystem.	10	(1:2:1:6.1)
<u>Module-3</u>			
5.	a. Explain the concept of systems ecology and its significance in understanding ecosystems.	10	(1:3:1:6.1)
	b. Discuss the importance of biodiversity from an ecological perspective, highlighting its role in ecosystem functioning.	10	(1:3:1:6.1)
(OR)			
6.	a. What is ecosystem modeling? What are the different types of ecosystem models?	10	(1:3:1:6.1)
	b. Discuss four significant threats to biodiversity and ecosystems caused by human activities.	10	(1:3:1:6.1)
<u>Module-4</u>			
7.	a. Explain the sources and effects of water pollution on aquatic ecosystems and human health.	10	(1:4:1:6.1)

Note: (RBTL - Revised Bloom's Taxonomy Level: CO - Course Outcome: PI- Performance Indicator)

- b. Discuss the major causes of land pollution. How does improper waste disposal contribute to land degradation? **10** (1:4:1:6.1)

(OR)

8. a. What is global warming? What are the main causes of global warming? **10** (1:4:1:6.1)

- b. What is the ozone layer? What causes ozone layer depletion? **10** (1:4:1:6.1)

Module-5

9. a. Explain the guiding principles of environmental education in India. **10** (1:5:1:6.1)

- b. List and explain the objectives of environmental education in India. **10** (1:5:1:6.1)

(OR)

- 10 a. List the goals/ aims of environmental education as per UNSECO. **10** (1:5:1:6.1)

- b. What are some prominent environmental education programs/initiatives in India aimed at raising awareness about biodiversity conservation? **10** (1:5:1:6.1)

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