

BALLARI INSTITUTE OF TECHNOLOGY & MANAGEMENT

(Autonomous Institute under Visvesvaraya Technological University, Belagavi)

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Course Code

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Seventh Semester B.E. Degree Examinations, February 2025

ENVIRONMENTAL PROTECTION AND MANAGEMENT

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. Draft a short note explaining the idea of environmental stewardship.	10	(1:1:1:3.1)
	b. Describe the core principles of environmental management.	10	(2:1:1:3.1)
(OR)			
2.	a. Explain unique characteristics of environmental problems with example.	10	(1:1:1:3.1)
	b. Write a note on national environmental policy.	10	(2:1:1:3.1)
<u>Module-2</u>			
3.	a. Describe the purpose and significance of environmental quality objectives.	10	(1:2:1:3.1)
	b. Describe the concepts of mass and concentration standards.	10	(2:2:1:3.1)
(OR)			
4.	a. Describe the concept of "closing the loop" in industries.	10	(1:2:1:3.1)
	b. Explain the principles of zero liquid discharge technologies.	10	(2:2:1:3.1)
<u>Module-3</u>			
5.	a. With the help of a neat sketch, describe the key components of an Environmental Management System (EMS).	10	(1:3:1:3.1)
	b. Evaluate the advantages that an organization can achieve by obtaining ISO 14001 certification.	10	(2:3:1:3.1)
(OR)			
6.	a. Examine the process of identifying environmental aspects and impacts within an organizational setup.	10	(1:3:1:3.1)
	b. Identify and describe the key components of ISO 14001.	10	(2:3:1:3.1)
<u>Module-4</u>			
7.	a. Evaluate the qualifications and requirements needed to become an environmental auditor.	10	(1:4:1:3.1)
	b. Demonstrate how environmental form-v is used in sustainable design.	10	(2:4:1:3.1)

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

(OR)

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| 8. | a. Explain the key principles of ISO auditing and describe how they could be visually represented in a simple diagram? | 10 | (1:4:1:3.1) |
| | b. Define internal and external audits within the EMS framework. | 10 | (2:4:1:3.1) |

Module-5

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| 9. | a. Demonstrate how specific methods, like recycling water or using cleaner technologies, can be applied in a real sugar mill. | 10 | (1:5:1:3.1) |
| | b. Provide an example of how a company might choose an appropriate disposal method based on the type of hazardous waste. | 10 | (2:5:1:3.1) |

(OR)

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| 10. | a. Describe how conducting a waste audit helps organizations manage waste more effectively and improve sustainability. | 10 | (1:5:1:3.1) |
| | b. Evaluate a case study or example where a textile company successfully implemented pollution prevention strategies. | 10 | (2:5:1:3.1) |

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