CBCS SCHEME

USN

21CV753

ACHARYA INSTITUTE OF TECHNOLOGY BANGALORE MCA Library Date

Seventh Semester B.E./B.Tech. Degree Examination, Dec.2025/Jan.2026
Environmental Protection and Management

Time: 3 hrs. Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

Module-1

1 a. Enumerate the various environment management principles and explain any two principles. (10 Marks)

b. Briefly explain the classification of environmental impact reduction efforts. (10 Marks)

OR

2 a. Discuss the various drivers and barriers for sustainable development. (10 Marks)

b. Highlight the charter on corporate responsibility for environmental protection. (10 Marks)

Module-2

3 a. Explain environmental performance evaluation process using PDCA cycle. (10 Marks)

b. Describe zero liquid technologies. (10 Marks)

OR

4 a. Enumerate the various environment quality objectives and explain any two objectives. (10 Marks)

b. Elaborate on concentration and mass standards. (10 Marks)

Module-3

5 a. What are the benefits and barriers of an ISO14001 certification, explain briefly. (10 Marks)

b. Discuss the operational control and monitoring and measurement in environmental management system. (10 Marks)

OR

6 a. List the components in a successful environmental management system and explain any two components. (10 Marks)

b. Write a short note on environmental management programs. (10 Marks)

Module-4

7 a. Describe environmental management system audits as per ISO 19011. (10 Marks)

b. Highlight the contents of environmental statement (Form-V). (10 Marks)

OR

8 a. Elucidate the roles and qualification of environmental auditor. (10 Marks)

b. What are the different phases of waste minimization planning, explain any three. (10 Marks)

Module-5

9 a. Elucidate pollution prevention and control in pulp and paper industry. (10 Marks)

b. List the different disposal methods of hazardous waste, explain any two methods. (10 Marks)

OR

10 a. Elaborate pollution prevention and control in textile industry. (10 Marks)

b. Write a short note on hazardous waste characteristics and treatment. (10 Marks)

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