



CBGS SCHEME

18CV753

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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.

Module-1

- 1 a. Explain the principles of business charter for sustainable development. (07 Marks)
- b. Explain the goals of Environmental Management for sustainable development. (07 Marks)
- c. Explain Abatement of Pollution. List out the major activities initiated under various schemes in Abatement Pollution. (06 Marks)

OR

- 2 a. Enumerate Business Charters tools for sustainable production and consumption. (any ten) (08 Marks)
- b. Enumerate the various drivers and barriers for sustainable development. (07 Marks)
- c. Enumerate the various Environmental Management principles and explain any two principles. (05 Marks)

Module-2

- 3 a. Write a short note on "Bench Marking" and its approaches. (07 Marks)
- b. Explain the development of minimum National Standards from industries. (07 Marks)
- c. Write a short note on 'Closing the loops' in industries. (06 Marks)

OR

- 4 a. Critically examine the economic barriers and educational barriers to presentation of pollution. (07 Marks)
- b. Discuss environmental quality objectives. Briefly explain any two. (07 Marks)
- c. Explain in detail environmental performance evaluation and performance indicators. (06 Marks)

Module-3

- 5 a. Write short notes on :
(i) Initial Environmental Review (IEB) (ii) Management Review (MR) (08 Marks)
- b. Briefly explain about Environmental Management Programs. Does it really help to achieve Environmental Objectives? (07 Marks)
- c. State the requirements and recommended approach to implementing clause 4.2 of ISO 14001 (Environmental Policy) within an organization. (05 Marks)

OR

- 6 a. Enumerate the similarities and differences between ISO 14001:2015 and EMS. (07 Marks)
- b. Discuss EMS as per ISO 14001, the benefits and barriers of EMS. (07 Marks)
- c. What is continual improvement in Environmental Performance? How can it be planned in an organization? (06 Marks)

Module-4

- 7 a. Explain the steps involved in auditing. Explain the different types of audit. (10 Marks)
- b. List out objectives of 'Waste Audit'. (05 Marks)
- c. Enumerate the contents of Environmental Statement (Form-V). (05 Marks)

OR

- 8 a. Explain the Environmental Management System audit as per ISO 19011. (07 Marks)
- b. How do you communicate and document Environmental Management issues in an industrial organization? (07 Marks)
- c. Explain briefly :
i) Non-Conformity
ii) Role and Qualification of Auditors (06 Marks)

Module-5

- 9 a. Discuss Pollution Opportunities in Pulp and Sugar Mills. (08 Marks)
- b. Explain the treatment of waste generated from tanning industry. (07 Marks)
- c. Briefly discuss the application of EMS and Waste Audit. (05 Marks)

OR

- 10 a. Explain the pollution control of textile and paper industry. (07 Marks)
- b. Briefly describe classification, characteristics of hazardous waste, treatment and disposal methods. (07 Marks)
- c. Describe Transboundary Movement of environmental pollutants and disposal methods. (06 Marks)

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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.