



CBGS SCHEME

18CV753

Seventh Semester B.E. Degree Examination, Dec.2024/Jan.2025 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. What are the unique characteristics of environmental problems faced by mankind today? Discuss some of the critical environmental issues experienced on local, regional and global scale and their probable mitigation measures. (08 Marks)
- b. Define "Environmental Stewardship". How does the local environmental stewardships action have an impact on the socio-ecological outcomes of the region? (04 Marks)
- c. Distinguish between:
 - i) Polluter pays principle and user pays principle.
 - ii) Principle of participation and principle of proportionality. (08 Marks)

OR

- 2 a. Explain briefly the national policies on environment abatement of pollution and conservation of natural resources and the relevant legislations enacted by the Indian government to safeguard the environment. (10 Marks)
- b. Write a note on "Business charter for sustainable production and consumption". (10 Marks)

Module-2

- 3 a. Distinguish between:
 - i) Stream standards and effluent standards
 - ii) Emission and ambient standards. (12 Marks)
- b. What are the objectives of conducting an environmental performance evaluation of an organization and mention the benefits derived from it. (08 Marks)

OR

- 4 a. Distinguish between:
 - i) Pollution control and pollution prevention
 - ii) Clean technologies and zero discharge technologies. (12 Marks)
- b. Write a note on:
 - i) Environmental performance indicators and
 - ii) Bench marking. (08 Marks)

Module-3

- 5 a. Explain the basic principles of ISO:14001. (10 Marks)
- b. How does initial environmental review help in creating Environmental Management System (EMS) of an organization. (10 Marks)

OR

- 6 a. What is EMS? What are the basic elements of EMS? (10 Marks)
- b. Discuss the benefits derived from EMS. (10 Marks)

Module-4

- 7 a. How "Environmental Audit (EA)" differs from "Environmental Impact Assessment (EIA)"? Explain. (10 Marks)
b. Write a note on ISO:19001-2018 auditing management systems. (10 Marks)

OR

- 8 a. Discuss various types of environmental audits. (10 Marks)
b. What are the roles and responsibilities of auditors conducting an environmental audit? (05 Marks)
c. Write a note on "Waste Audit". (05 Marks)

Module-5

- 9 a. Discuss the application of EMS and pollution prevention in electroplating and tanning industry. (14 Marks)
b. What are the four characteristics which defines a hazardous waste? What are the various minimization techniques and disposal methods adopted in managing hazardous waste? (06 Marks)

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OR

- 10 a. Discuss the application of EMS and pollution prevention in sugar and textile industry. (14 Marks)
b. Write a note on transboundary movement of hazardous waste. (06 Marks)
