PCET LIBRARY BANGALORE-49

CBCS SCHEME

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21CV753

Seventh Semester B.E./B.Tech. Degree Examination, June/July 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. Explain the Corporate Responsibilities for Environment Protection [CREP]. **(10 Marks)**

b. Describe the National Policies for abatement of pollution. **(10 Marks)**

OR

2 a. Explain Unique characteristics of environmental problems with examples. **(10 Marks)**

b. Explain the Environmental Management Principles. **(10 Marks)**

Module-2

3 a. Discuss Environmental Quality objectives. **(10 Marks)**

b. What do we mean by cleaner production and Clean Technology? **(10 Marks)**

OR

4 a. Distinguish between Mass standard, stream standards and emission standards with examples for each. **(10 Marks)**

b. Discuss in detail environmental performance evaluation and performance indicators. **(10 Marks)**

Module-3

5 a. Discuss EMS as per ISO 14001, the benefits and barriers of EMS. **(10 Marks)**

b. Explain EMS and EMAS. **(10 Marks)**

OR

6 a. Write short notes on :
i) Initial Environmental Review – IER
ii) Management Review – MR. **(10 Marks)**

b. Explain the concept of continual improvement and pollution prevention. **(10 Marks)**

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Module-4

7 a. Write a process flow diagram for the management system audit as per ISO 19011. **(10 Marks)**

b. Apply the concept of environmental performance indicators and their evaluation. **(10 Marks)**

OR

8 a. Write short a note on Waste Audit and Waste Minimization Planning in any industry of your choice. **(10 Marks)**

b. Explain the corrective and preventive actions in compliance audits. **(10 Marks)**

Module-5

9 a. Describe the Transboundary movement of environmental pollution and disposal methods. **(10 Marks)**

b. Mention waste Audits procedure for :
i) Sugar industry
ii) Tanning industry. **(10 Marks)**

OR

10 a. Prepare a detailed EMS plan for an organization manufacturing semi conductor chips. **(10 Marks)**

b. Write a note on Hazardous waste classification and characteristics. **(10 Marks)**

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