18CV753

Seventh Semester B.E. Degree Examination, Feb./Mar. 2022 **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

- Enumerate the various Environmental Management Principles and explain any two 1 principles. (10 Marks)
 - b. Enumerate the various drivers and barriers for sustainable development (any five in each). (10 Marks)

OR

- a. Explain Abatement of Pollution. List out the major activities initiated under the various 2 schemes on Pollution Abatement.
 - b. Enumerate the Business charter tools for sustainable production and consumption (any ten). (10 Marks)

Module-2

Enumerate the various Environmental Quality objectives. Briefly explain any two.

(10 Marks)

- b. Distinguish between:
 - i) Pollution control and Pollution Prevention.
 - ii) Concentration and Mass Standards

(10 Marks)

Explain Environmental Performance Evaluation Process using PDCA Cycle. (10 Marks)

Briefly explain:

- i) Cleaner production and Clean technology.
- ii) Zero discharge technologies.

(10 Marks)

Module-3

- Enumerate the benefits and barriers in implementing ISO 14001 in an Organisation.
 - Explain EMS and EMAS

(10 Marks)

(10 Marks)

OR

- Write Explanatory notes on:
 - i) Initial Environmental Review (IER)
- Management Review (MR).

(10 Marks)

Write a note on Environmental aspect and Impacts within an Organisational setup. (10 Marks)

Module-4

- Write a process flow diagram for the Management of an Audit Programme as per ISO -9011. (12 Marks)
 - Enumerate the contents of Environmental Statement (Form V).

(08 Marks)

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- a. Write a note on Waste Minimisation Planning in an Industry. (10 Marks)
 - b. Explain briefly:
 - i) Non conformity
- ii) Roles and Qualifications of Auditors.

(10 Marks)

Module-5

- a. Briefly discuss the applications of EMS and Waste Audit. (10 Marks) (10 Marks)
 - b. Explain the concept of Transboundary of Pollutants.

OR

- 10 a. Discuss Pollution Prevention Opportunities in Pulp Paper and Sugar mills. (10 Marks)
 - b. Write a note on Hazardous Waste classification and characteristics.

(10 Marks)

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