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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

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

OR

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

Module-2

- 3 a. Enumerate the various Environmental Quality objectives. Briefly explain any two. (10 Marks)
- b. Distinguish between :
 - i) Pollution control and Pollution Prevention. (10 Marks)
 - ii) Concentration and Mass Standards. (10 Marks)

OR

- 4 a. Explain Environmental Performance Evaluation Process using PDCA Cycle. (10 Marks)
- b. Briefly explain :
 - i) Cleaner production and Clean technology. (10 Marks)
 - ii) Zero discharge technologies. (10 Marks)

Module-3

- 5 a. Enumerate the benefits and barriers in implementing ISO 14001 in an Organisation. (10 Marks)
- b. Explain EMS and EMAS. (10 Marks)

OR

- 6 a. Write Explanatory notes on :
 - i) Initial Environmental Review (IER) (10 Marks)
 - ii) Management Review (MR). (10 Marks)
- b. Write a note on Environmental aspect and Impacts within an Organisational setup. (10 Marks)

Module-4

- 7 a. Write a process flow diagram for the Management of an Audit Programme as per ISO - 19011. (12 Marks)
- b. Enumerate the contents of Environmental Statement (Form - V). (08 Marks)

OR

- 8 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

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

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)


