



CBCS SCHEME

18CV753

Seventh Semester B.E. Degree Examination, Jan./Feb. 2023 * 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. Define 'Environment' and 'Environment Management'. Explain in what way the National Development effects the Environment parameters with an example. (08 Marks)
- b. List various National policies for Environment protection with its year of implementation. Do we have any regulation to deal with e - waste? (06 Marks)
- c. Write a short note on Corporate responsibilities for the Environment Protection. (06 Marks)

OR

- 2 a. Briefly explain 'System Approach' to Environment Management. Does it really help to make 'Sustainable Society'? (06 Marks)
- b. Explain Business strategy drivers and barriers with an illustration. (06 Marks)
- c. Discuss the following : i) Abatement of Pollution ii) Conservation of Resources. (08 Marks)

Module-2

- 3 a. Highlight the importance of "Environmental Management Objectives" for the Society and Industry. (06 Marks)
- b. Distinguish between Mass standard stream standers and Emission standards with examples. (06 Marks)
- c. In the context of Environmental Performance Evaluation (EPE), define the following terms :
i) Closing the loops in Industries ii) Benchmarking. (08 Marks)

OR

- 4 a. Explain Environmental Quality Objectives to meet Environmental goals in an Organisation. (06 Marks)
- b. Write a short note on "Minimum National Standards" and "Environment Performance Indicators". (10 Marks)
- c. Briefly explain the 'Concept of Clean Technology' and 'Zero Discharge Technology' for Environment Protection. (04 Marks)

Module-3

- 5 a. Elaborate 'EMAS' to improve Environmental performance of an Industry. Also mention the process parameters involved. (06 Marks)
- b. Write short notes on :
i) Concept of continual improvement and pollution prevention. (08 Marks)
- ii) Training awareness and competence. (06 Marks)
- c. Mention contents of ISO 14001. (06 Marks)

OR

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.

- 6 a. Discuss Environment Management System (EMS) as per ISO 14001 and mention its benefits for Environmental performance. (08 Marks)
 b. Briefly explain about Environmental Management Programs. Does it really help to achieve Environmental Objectives? (06 Marks)
 c. How do you communicate and document Environment Management issues in an Industrial Organisation? (06 Marks)

Module-4

- 7 a. Define 'Environmental Audit' and list its requirements as per ISO 19011. (06 Marks)
 b. Write short note on :
 i) Due Diligence Audit ii) Roles and Qualifications of Auditors. (08 Marks)
 c. What do you understand by 'Environmental Non - Conformance'? Suggest corrective and preventive actions to overcome Non - Conformance. (06 Marks)

OR

- 8 a. Explain in brief Environmental performance indicators and their performance evaluation. (10 Marks)
 b. Contents of Environmental Statement – Form V. (06 Marks)
 c. List out objectives of 'Waste Audit'. (04 Marks)

Module-5

- 9 a. Write briefly about the pollution prevention control activities for a Tanning Industry. (06 Marks)
 b. How do you classify and characterize hazardous waste? (07 Marks)
 c. Explain Transboundary movement of pollutants with an example. How to manage this problem? (07 Marks)

OR

- 10 a. Mention Waste Audit procedure for following Industries :
 i) Mandya Pulp and Paper Mill ii) Reymond's Textile Ltd., (10 Marks)
 b. What are the safe treatment and disposal methods for Hazardous waste? (10 Marks)
