CBCS SCHEME

USN

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

- 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

- 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 "Cencept 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:
 - f) Concept of continual improvement and pollution prevention.
 - ii) Training awareness and competence.

Mention contents of ISO 14001.

(08 Marks)

(06 Marks)

OR

1 of 2

important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

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

Module-4

- a. Define 'Environmental Audit' and list its requirements as per ISO 1901 (06 Marks)
 - b. Write short note on:
 - ii) Roles and Qualifications of Auditors. (08 Marks) i) Due Diligence Audit
 - c. What do you understand by 'Environmental Non Conformance'? Suggest corrective and (06 Marks) preventive actions to overcome Non - Conformance.

OR

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

Module-5

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

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

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