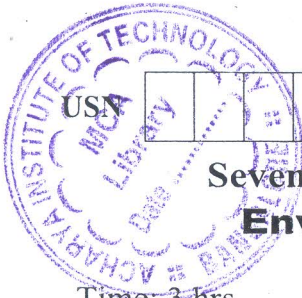


# GBCS SCHEME

18CV753



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**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 : (08 Marks)
- i) Due Diligence Audit      ii) Roles and Qualifications of Auditors.
- 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 : (10 Marks)
- i) Mandya Pulp and Paper Mill      ii) Reymond's Textile Ltd.,
- b. What are the safe treatment and disposal methods for Hazardous waste? (10 Marks)

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