

# **IMPORTANT QUESTION**

## **Environmental Protection and Management (21CV743)**

### **Module 1: Environmental Management Standards:**

1. Explain the unique characteristics of environmental problems and the systems approach to corporate environmental management.
2. Discuss the classification of environmental impact reduction efforts with examples.
3. What is the Business Charter for Sustainable Production and Consumption? Highlight its importance.
4. Identify the tools, drivers, and barriers in environmental management strategies for businesses.
5. Outline the evolution of environmental stewardship in organizations.
6. Explain the principles of environmental management with examples.
7. Summarize the national policies on environmental conservation and pollution abatement.
8. Define the Charter on Corporate Responsibility for Environmental Protection.
9. Compare and contrast pollution abatement policies in India and other countries.
10. Discuss how resource conservation integrates into corporate environmental strategies.

### **Module 2: Environmental Management Objectives:**

1. What are environmental quality objectives? Explain their significance.
2. Differentiate between concentration and mass standards in environmental management.
3. Compare effluent standards with emission standards and provide examples.
4. Explain the concept of minimum national standards in environmental policies.
5. Describe environmental performance evaluation with a focus on indicators and benchmarking.
6. Discuss the difference between pollution control and pollution prevention.
7. Identify opportunities and barriers to implementing cleaner production and clean technology.
8. Explain the concept of zero discharge technologies and their industrial applications.
9. Analyze the importance of closing the loop in environmental management.
10. Discuss the role of benchmarking in improving environmental performance.

### **Module 3: Environmental Management System (EMS):**

1. Describe the ISO 14000 series and their relevance to EMS.
2. What are the benefits and barriers of implementing an EMS in industries?
3. Explain the concept of continual improvement and its role in pollution prevention.
4. Outline the steps involved in conducting an initial environmental review.
5. Discuss the process of environmental aspect and impact analysis.
6. Describe the importance of legal and other requirements in EMS.
7. Explain the role of training, awareness, and competence in implementing EMS.
8. Discuss the key components of an environmental management program.
9. Highlight the importance of operational control and monitoring in EMS.
10. Explain the significance of management reviews in maintaining an effective EMS.

### **Module 4: Environmental Audit:**

1. Define environmental audit and its significance in EMS.
2. Describe the guidelines for environmental management system audits as per ISO 19011.
3. What qualifications and roles are expected of an environmental auditor?
4. Explain the concept of environmental performance indicators and their evaluation methods.
5. Discuss the importance of corrective and preventive actions in environmental audits.
6. What is a compliance audit, and how is it conducted?
7. Outline the steps involved in waste audits and waste minimization planning.
8. Explain the process of preparing an environmental statement (Form V).
9. What is a due diligence audit? Highlight its importance in environmental management.
10. Compare waste audits with pollution prevention audits.

#### **Module 5: Applications of EMS:**

1. Discuss the role of waste audits in the textile industry with specific examples.
2. How is pollution prevention applied in the sugar industry?
3. Explain EMS applications in the pulp and paper industry.
4. Discuss the relevance of EMS in electroplating industries.
5. Highlight the environmental management practices in the tanning industry.
6. What are the EMS strategies for the dairy industry to reduce waste?
7. Explain the challenges and solutions in applying EMS to the cement industry.
8. Discuss EMS implementation in chemical industries with case studies.
9. What are the procedures for transboundary movement and disposal of hazardous wastes?
10. Outline the guidelines for handling hazardous waste as per international standards.