

21/05/2025 BE MECHANICAL SEM-VIII C-SCHEME EM QP CODE: 10086721

[Time: 3 Hours]

[Marks:80]

1. Questions No. 1 is Compulsory.
2. Attempt any three out of remaining Questions.
3. Figures to the right Indicate full marks.

Q.1 Attempt any Four.

20

- a) Explain any five Salient features of the Environment Protection Act, 1986.
- b) Describe the current energy scenario in India. What challenges does India face in meeting its energy demands?
- c) What is a food chain? How does it differ from a food web?
- d) What are atomic and biomedical hazards?.
- f) Explain the role of the government as a planning and regulatory agency.

Q.2 a) Discuss major environmental problems in India and their implications for public health and natural resources.

10

- b) Explain Ozone layer depletion? What are the Causes, effects and preventive measures of Ozone depletion?

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Q.3 a) Define ecosystem. Classify different types of Ecosystems? What are the biotic and abiotic components of an ecosystem?

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- b) Discuss the role of Central Pollution Control Board (CPCB) in pollution monitoring.

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Q.4 a) What is ISO 14000? Explain its significance in environmental management and how it helps organizations reduce their environmental impact.

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- b) What is Corporate Environmental Responsibility (CER)? Explain its importance and mention any three ways in which companies can practice CER to promote environmental sustainability.

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Q.5 a) Compare natural and human-made sources of greenhouse gases. Which ones have the greatest impact on global warming and why? Support your answer with examples

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- b) What is Environmental Quality Management (EQM)? Explain its objectives in detail.

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Q.6 a) With reference to EMS, explain PDCA cycle with neat diagram.

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- b) Critically evaluate the concept of sustainable development as a multidimensional approach. How does it reconcile the conflicting goals of economic growth, environmental conservation, and social equity?

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