



- KEEPING MOBILE PHONE/ANY ELECTRONIC GADGETS, EVEN IN 'OFF' POSITION IS TREATED AS EXAM MALPRACTICE
➤ DON'T WRITE ANYTHING ON THE QUESTION PAPER

COs	CO Statements
CO1	Identify causes and effects that affect natural resources and evolve solutions to tackle the problems in a multi-disciplinary way.
CO2	Compare the various renewable energy resources for their efficient utilization.
CO3	Design methods to conserve and protect biodiversity.
CO4	Remedial measures to the causes of environmental pollution, the hazards, their management and control methods.
CO5	Recognize social issues, their causes and effects on the environment.

BL – Blooms Taxonomy Level (1 – Remember, 2 – Understand, 3 – Apply, 4 – Analyse, 5 – Evaluate, 6 – Create)

Answer ALL Questions
(10 X 10 = 100 Marks)

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| 1. | Deforestation is often seen as a necessary evil for development. Do you agree? Justify your answer with causes and consequences. | CO1 | BL2 |
| 2. | Illustrate the biogas production process using a diagram and describe the key components and operation of fixed-dome and floating-dome biogas plants. | CO2 | BL2 |
| 3. | Describe the various factors that remain as threats to biodiversity and outline suitable measures to reduce the same. | CO3 | BL3 |
| 4. | What are the different types of solid wastes generated in the environment? Explain the various disposal methods. | CO4 | BL1 |
| 5. | How does emission trading schemes help the countries to control the emission of Green-House Gases (GHG)? What are the protocols implemented to reduce the GHG emission? | CO4 | BL1 |
| 6. | Propose the need for rainwater harvesting as an emergency act. Justify the outcomes of the construction of the rainwater harvesting project. | CO1 | BL3 |
| 7. | "Women and children suffer in a number of ways mainly because they are weaker, helpless and economically dependent"- Justify this statement. What are the adopted welfare schemes to protect them in India? | CO5 | BL2 |
| 8. | What is soil erosion? Enumerate the various soil conservation practices adopted in India. | CO2 | BL2 |
| 9.a) | Explain why food web is considered a more accurate representation of energy flow within an ecosystem than a food chain. Support your explanation with a suitable example. | CO1 | BL2 |

[OR]

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| 9.b) | Highlight any five devices that helps in harvesting solar energy. How do they contribute to sustainable energy use? | CO1 | BL2 |
| 10.a) | How does acid rain occurs? Highlight the major effects of acid rain on environment and explain any TWO control measures of air pollution. | CO5 | BL2 |
| [OR] | | | |
| 10.b) | How the information technology professionals can contribute to the sustainable development of India? Give a detailed discussion. | CO5 | BL2 |

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