

Hall Ticket No

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Course Code: AHSD06



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

**B.TECH I SEMESTER CIE – I EXAMINATIONS, NOVEMBER – 2023**

Regulation: BT23

**ENVIRONMENTAL SCIENCE**

**(COMMON TO ALL BRANCHES)**

**Time: 2 Hours**

**Max Marks: 20**

**Answer any FOUR questions**

**All parts of the question must be answered in one place only**

1. (a) Describe the major drawbacks of using pesticides and other agrochemicals in the soil on any ecosystem. [BL: Understand| CO: 1|Marks: 2]  
(b) Describe energy flow pattern in different types of ecosystem. What happens to the energy flow as we move up the trophic levels? [BL: Understand| CO: 1|Marks: 3]
2. (a) List the different trophic levels of ecosystem. Differentiate between grazing food chain and detritus food chain. [BL: Understand| CO: 1|Marks: 2]  
(b) What are ecological pyramids? Explain why some of these pyramids are upright while others are inverted in different ecosystem. [BL: Understand| CO: 1|Marks: 3]
3. (a) Discuss the importance of land as a natural resource. Elucidate how world's land surface is getting degraded. [BL: Understand| CO: 2|Marks: 2]  
(b) How water becomes a renewable resource? What are the effects of over exploitation of water resources? Distinguish between hard water and soft water. [BL: Understand| CO: 2|Marks: 3]
4. (a) Outline the cause of over exploitation of natural resources. Why do we need to manage our resources? [BL: Understand| CO: 2|Marks: 2]  
(b) Classify different types of natural resources. Explain briefly about rain harvesting plant and give its importance in urban society. [BL: Understand| CO: 2|Marks: 3]
5. (a) Summarize consumptive use value, productive use value, social value, ethical value, aesthetic value and optional value of biodiversity. [BL: Understand| CO: 3|Marks: 2]  
(b) Our India is a "Mega Diversity Nation". Support the statement highlighting the biodiversity greatness of India. [BL: Understand| CO: 3|Marks: 3]

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