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Question Paper Code: AHS009



**INSTITUTE OF AERONAUTICAL ENGINEERING**  
(Autonomous)

B.Tech II Semester End Examinations (Supplementary) - May, 2019

Regulation: IARE – R16

**ENVIRONMENTAL STUDIES**

**Time: 3 Hours**

**(Common to All Branches)**

**Max Marks: 70**

**Answer ONE Question from each Unit**

**All Questions Carry Equal Marks**

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

**UNIT – I**

1. (a) Describe briefly flow of energy in Ecosystem and discuss the significance of food chain and food web with relevant examples. [7M]
- (b) Explain briefly Biogeochemical cycles of phosphorous and nitrogen cycle. [7M]
2. (a) Describe briefly scope and importance of Ecosystem. [7M]
- (b) Explain briefly forest Eco system and aquatic Eco system in detail. [7M]

**UNIT – II**

3. (a) What are the different methods of conserving water resource? Explain briefly different types of natural resources? [7M]
- (b) Give brief note on importance of Land resources, Use and exploitation of Land resources? [7M]
4. (a) Give brief note on importance of energy resources? Write a note on non renewable energy resources. Explain how every source of energy has its limits. [7M]
- (b) Define disaster and explain causes, effects and control measures of floods? [7M]

**UNIT – III**

5. (a) Define Bio-diversity. Discuss the Genitic, species and Ecosystem Biodiversity? [7M]
- (b) Describe briefly India as a mega diversity nation? Explain in-situ and ex-situ conservation of Bio-diversity with examples. [7M]
6. (a) What are the major causes of human-wild life conflicts? Suggest suitable wild life conservation practices. [7M]
- (b) Describe briefly poaching of wildlife? Name the animals for whose protection and conservation specific projects have been launched in our country. [7M]

**UNIT – IV**

7. (a) Define solid waste and describe solid waste causes, effects and control measures? [7M]
- (b) Define air pollution. What are the sources of air pollution? Discuss Global Environmental Problems and Global effects? [7M]

8. (a) Describe briefly climate change and Ozone layer depletion? [7M]  
(b) Explain briefly concepts of Bioremediation? Explain how does climate change become a global issue and what were the international initiatives. [7M]

**UNIT – V**

9. (a) Discuss the salient features of Environmental protection Act, 1986. [7M]  
(b) What is meant by population explosion? Give brief note on biomedical waste management? [7M]
10. (a) List out the objectives of Air pollution act. Describe briefly Environmental Impact Assessment (EIA)? [7M]  
(b) Mention some salient features of biomedical waste management and handling rules, 2016. Describe briefly Municipal solid waste management handling rules. [7M]

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