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Question Paper Code: AHS009



**INSTITUTE OF AERONAUTICAL ENGINEERING**  
(Autonomous)

B.Tech II Semester End Examinations (Regular/Supplementary) - May, 2018

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 scope and importance of Environmental science. Explain about biogeochemical cycles. [7M]
- (b) Discuss the types of energy flow models in the ecosystem. Explain about unidirectional energy flow system. [7M]
2. (a) Define Environment and Explain briefly need for public awareness. [7M]
- (b) Discuss the structure and function of an ecosystem with suitable example. [7M]

**UNIT – II**

3. (a) Explain briefly about mining, dams and their effects on forests and tribal people. [7M]
- (b) Discuss water resources use Explain the effects of over-utilization of surface and ground water. [7M]
4. (a) Explain briefly effects of floods and drought. Explain about alternative energy resources for protection of environment. [7M]
- (b) Give brief note on importance of Mineral resources. Explain the use and exploitation of mineral resources. [7M]

**UNIT – III**

5. (a) Discuss the different types of ecological pyramids role in ecosystem with neat sketch and explain with suitable example. [7M]
- (b) Describe the food webs and food chains with neat sketch and explain with suitable example. [7M]
6. (a) Discuss Biodiversity and describe briefly about conservation of Biodiversity. [7M]
- (b) Describe the hot spots of Biodiversity. Explain with an example. [7M]

**UNIT – IV**

7. (a) Define Air pollution. Explain causes, effects and control measures of Air pollution? [7M]
- (b) Explain about Solid waste management. Describe Solid waste causes, effects and control measures. [7M]

8. (a) Define Soil pollution. Explain causes, effects and control measures of Soil pollution. [7M]  
(b) Describe briefly climate change and Ozone layer depletion. [7M]

**UNIT – V**

9. (a) Describe wild life prevention Act. Explain about wildlife conflict. [7M]  
(b) Explain forest conservation Act. Explain deforestation and desertification. [7M]
10. (a) Describe water pollution prevention and water control Act. [7M]  
(b) Describe air pollution prevention and control Act. What are the threats and measures for sustainable development? [7M]

