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Question Paper Code: AHS009



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

B.Tech I/II Semester Supplementary Examinations - July, 2017

Regulation: IA-R16

## ENVIRONMENTAL STUDIES

[Common for : II Semester (all branches)]

Time: 3 Hours

Max Marks: 70

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Answer ONE Question from each Unit

All Questions Carry Equal Marks

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

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### UNIT – I

1. (a) Explain the components of environments with the help of neat sketch. [7M]  
(b) Describe the importance of ecology and eco-system with examples. [7M]
2. (a) What is an ecosystem? Explain the structures and functions of ecosystem. [7M]  
(b) Briefly explain the types of ecological pyramids with energy flow. [7M]

### UNIT – II

3. (a) What are the major causes and consequences of deforestation? [7M]  
(b) Discuss the impact of over exploitation of mineral resources. [7M]
4. (a) Give a brief account of renewable and non-renewable energy resources. [7M]  
(b) What happens to forest and tribal people if number of dams increases in our environment? [7M]

### UNIT – III

5. (a) Substantiate that INDIA is a mega biodiversity nation. Elaborate. [7M]  
(b) Explain the reasons for threats to biodiversity. [7M]
6. (a) What is Biodiversity? Give its significance. What are the three types of biodiversity? Explain them. [7M]  
(b) Explain in-situ and on-situ conservation along with merits and limitations. [7M]

### UNIT – IV

7. (a) Write a short note on Global warming and ozone depletion. [7M]  
(b) Explain the sources, effects and control of air pollution. [7M]
8. (a) Explain solid waste management. Mention the affects of solid waste pollution. [7M]  
(b) Mention the causes and effects of water pollution. Explain strategies to tackle them. [7M]

**UNIT – V**

9. (a) Define EIA. Point out the significance and various stages of EIA. [7M]  
(b) Explain the main objectives and provisions of water pollution act. [7M]
10. (a) Explain the characteristics of population growth. [7M]  
(b) Explain biomedical waste management and handling rule 2016. [7M]

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