

Code No: 114CW

**R13**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**B. Tech II Year II Semester Examinations, August/September - 2022**

**ENVIRONMENTAL STUDIES  
(Common to CE, ECE, CSE, IT)**

**Time: 3 Hours**

**Max.Marks:75**

**Answer any five questions  
All questions carry equal marks**

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- 1.a) Describe the functions of ecosystem in detail.  
b) Mention the flow diagram of Ecological Pyramid.  
c) Define Food chain and Food web. [6+5+4]
- 2.a) Explain in detail the Phosphorus cycle with schematic diagram.  
b) Discuss on Ecological succession and its significance. [10+5]
- 3.a) What are the adverse effects of over extraction of surface water ?  
b) List and explain various causes and effects of soil degradation.  
c) Discuss various problems faced during Dam construction. [5+6+4]
- 4.a) Write a short note on different types of energy sources.  
b) Define deforestation and causes of deforestation.  
c) What is the significant benefits of forest resources? [7+5+3]
- 5.a) Give the values of biodiversity and discuss on detail?  
b) What are the causes of Man-animal conflicts? [10+5]
- 6.a) Write a short note on endemic species of India.  
b) Discuss briefly on Genetic and Species Biodiversity. [7+8]
- 7.a) What are the causes and effects of Air Pollution? Mention the National Ambient Air quality standards as per Central Pollution Control board norms.  
b) What is municipal solid waste management? Give the process of Municipal solid waste management. [10+5]
8. What are the main provisions of :  
a) Environment Protect Act, 1986  
b) The Water (Prevention and Control of Pollution) Act, 1974  
c) The Air (Prevention and Control of Pollution) act 1981. [5+5+5]

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