

**(Following Paper ID and Roll No. to be filled in your Answer Books)****PAPER ID :****Roll No.**

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**B.TECH.****Theory Examination (Semester-II) 2015-16****ENERGY, ENVIRONMENT AND ECOLOGY****Time : 3 Hours****Max. Marks : 100****SECTION-A**

Q1. Attempt all question parts

10 x 2 = 20

- What are the principles of environmental education?
- What are the structural components of an Ecosystem?
- Bring out the order of distribution of biodiversity throughout the world with reasons.
- What is organic farming?
- Mention the advantages & disadvantages of modern agriculture.
- What are the merits of using renewable energy resources?
- What are the sources effects of marine pollution?
- Bring out the reactions taking place at stratosphere.
- What is Forest Ecosystem
- What is Aquatic Ecosystem

**SECTION - B**

Q2. Attempt any five question parts

10 x 5=50

- Describe the types, characteristics features, structure & function of
- Discuss the consequences of overdrawing surface and Ground water.
- Write briefly about Geothermal Energy and Tidal Power.
- How can you, as an individual, prevent environmental pollution? Why such an effort at an individual level is important?
- Discuss about the Forest Act, 1980 and its amendments until date.
- With a neat flow diagram explain nitrogen cycle
- Explain the environmental damage caused by mining activities. Illustrate one case study.
- Give a comparative account of urban and industrial wastes in terms of their sources, characteristics and management and disposal methods.

**SECTION - C**

Attempt any two of the following questions

15x 2 =30

- Q3.a) What are tropic levels? Explain the flow of energy and minerals in ecosystem.  
b) Discuss any one model of ecosystem with an example.

Q4. Attempt the following

- Discuss the possible solutions to improve the acceptability of dam projects in Indian conditions
- What is biodiversity? How is it classified? Explain the values of biodiversity.

Q5. Attempt any two parts

- Compare nuclear power and coal power.
- Describe about Water Act - 1974.
- How drinking water is polluted and discuss the diseases associated with water.