

(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 cold power.
 - Describe about Water Act – 1974.
 - How drinking water is polluted and discuss the diseases associated with water.