

(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

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

**SECTION - B**

Q2. Attempt any five question parts 10 x 5=50

- a) Describe the types, characteristics features, structure & function of
- b) Discuss the consequences of overdrawing surface and Ground water.
- c) Write briefly about Geothermal Energy and Tidal Power.
- d) How can you, as an individual, prevent environmental pollution? Why such an effort at an individual level is important?
- e) Discuss about the Forest Act, 1980 and its amendments until date.
- f) With a neat flow diagram explain nitrogen cycle
- g) Explain the environmental damage caused by mining activities. Illustrate one case study.
- h) 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

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

Q5. Attempt any two parts

- a) Compare nuclear power and cold power.
- b) Describe about Water Act – 1974.
- c) How drinking water is polluted and discuss the diseases associated with water.

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