

BTECH
THEORY EXAMINATION (SEM-II) 2016-17
ENVIRONMENT & ECOLOGY

Time : 3 Hours**Max. Marks : 100****Note : Be precise in your answer. In case of numerical problem assume data wherever not provided.**

SECTION A

1. Attempt the following:**10x2 = 20**

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| a) What is the definition of environment | f) Write short note on noise pollution. |
| b) Explain the Environment (Protection) Act, 1986. | g) Discuss in short the challenges of sustainable development. |
| c) Write the scope of the environment act. | h) What are the Water borne diseases? |
| d) What do you mean by energy resources? | i) What is air pollution? |
| e) Classify various types of energy resources. | j) What is biodiversity? |

SECTION B

2. Attempt any three parts of the following:**3 × 10 = 30**

- a) What is Ecosystem ? How many components it have ? Describe in details the various types of consumers.
- b) What are the major causes of deforestation ? Give the consequences of it.
- c) Explain the factors which cause air pollution and also explain how it can be controlled ?
- d) What is environment impact assessment? How it works.
- e) Write short note on solar energy.

SECTION C

Attempt the following:**5 × 10 = 50**

- 3) What are ecological pyramids ? The flow of energy is one way and continuous.

OR

Discuss in-situ and ex-situ conservation of biodiversity.

- 4) Discuss the following : (Any two)

- (i) Forest (Conservation) Act, 1980
- (ii) Water (Prevention & Control) Act, 1974
- (iii) Environment (Protection) Act

OR

Discuss the following energy resources (i) Wind energy (ii) Hydrogen energy

- 5) (i) Name and explain the various steps of carbon cycle or nitrogen cycle.
(ii) Enumerate with examples the major sources of water pollution and give its control measures.

OR

Define food chain & food web. Name and explain various types of food chains with suitable examples.

- 6) Explain, how the initiatives taken by non-government organization are helpful in creating the public awareness and implementation of environment protection programmes.

OR

Discuss the four segments of atmosphere.

- 7) Write short notes on following points: (i) Acid Rain (ii) Air borne diseases

OR

What is meant by ozone depletion? How CFCs and other ozone depletion substances affect ozone shield? What is bad ozone?