

**Code : 011102**

**B.Tech 1st Semester Exam., 2014**

**ENVIRONMENTAL SCIENCE**

Time : 3 hours

Full Marks : 70

**Instructions :**

- (i) All questions carry equal marks.
- (ii) There are **EIGHT** questions in this paper.
- (iii) Attempt **FIVE** questions in all.
- (iv) Question No. 1 is compulsory.

1. Answer the following questions (any seven) :

- ✓ (a) Write one example of aquatic food chain.
- ✓ (b) Write the upper and lower limits of pH for drinking water.
- ✓ (c) Write the name of the Act passed for the control of water pollution.
- (d) Which pollutant is responsible for dissolved oxygen depletion in surface water body?
- ✓ (e) In what condition ozone is not an air pollutant?
- ✓ (f) Write the units in which particulate air pollutants can be expressed.

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( Turn Over )

**( 2 )**

(g) Write the names of two anthropogenic greenhouse gases.

(h) Typhoid is caused due to what?

(i) Write the examples of non-renewable source of energy.

(j) Write the objective of secondary wastewater treatment process. <http://www.akubihar.com>

2. (a) Enumerate the adverse effects of modern agriculture on soil and water sources.

(b) Explain the salient features of the Environment (Protection) Act, 1986.

3. Describe the various water pollutants along with the sources and adverse effects on human being and environment. Also describe the various methods employed to control the water pollution.

4. (a) Differentiate between primary and secondary air pollutants with suitable examples.

(b) What are the effects of CO<sub>2</sub>, CO, NO<sub>x</sub>, SO<sub>x</sub> and Suspended Particulate Matters (SPM) on human health, vegetation, monuments and environment?

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- 5✓ (a) Explain the role of producers, consumers and decomposers in an ecosystem.
- (b) What are the major factors that are responsible for the loss of biodiversity? Explain in brief.
6. (a) Explain the characteristic features of forest and aquatic ecosystem.
- (b) Discuss the chemistry of ozone depletion.
- 7✓ (a) Discuss the role of an individual in pollution prevention.
- (b) Differentiate between food chain and food web with suitable examples.
8. Write short notes on any *three* of the following :
- (a) Sustainable development
- (b) Role of ragpickers in municipal solid waste management
- (c) Soil pollution
- (d) Devices for the control of particulate matter emission

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