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**2019**

**B.Tech. 2nd Semester End-Term Examination**

**ENVIRONMENTAL SCIENCE**

**(New Regulation)**

**(New Syllabus) (w.e.f 2017-18)**

Full Marks – 70

Time – Three hours

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The figures in the margin indicate full marks  
for the questions.

Answer Question No. 1 and any *four* from the rest.

1. Answer the following : (10 × 1 = 10)

(i) The objective of environmental education is

(a) To raise consciousness about  
environmental conditions

(b) To teach environmentally appropriate  
behavior

(c) To create an environmental ethic that  
fosters awareness about the ecological  
interdependence of economic, social and  
political factors in a human community  
and the environment

(d) All of the above

[Turn over

- (ii) Biosphere is
- (a) The solid shell of inorganic materials on the surface of the earth
  - (b) The thin shell of organic matter on the surface of the earth comprising all the living things
  - (c) The sphere which occupies the maximum volume of all the spheres
  - (d) All of the above
- (iii) Which of the following is not true about deforestation?
- (a) Population explosion is one of the reasons for deforestation
  - (b) Clearing of forest for agriculture causes deforestation
  - (c) Deforestation is taking place only in developing countries
  - (d) Cash crop economy of the third world is a cause of deforestation
- (iv) The major purpose of most of the dams around the world is
- (a) Power generation
  - (b) Irrigation
  - (c) Drinking water supply
  - (d) Flood control
- (v) A food web consists of
- (a) A portion of food chain
  - (b) Producers, consumers and decomposers
  - (c) Interlocking food chains
  - (d) A set of similar consumers

- (vi) A trophic level refers to
- (a) Area in the tropics
  - (b) An organism's position in a food chain
  - (c) An organism's position in an ecosystem
  - (d) An organism's position in a biome
- (vii) Which of the following is an endemic species of India?
- (a) Asian elephant
  - (b) Lion - tailed macaque
  - (c) Whales
  - (d) Panda
- (viii) Which of the following is a biodiversity hotspot in India?
- (a) Gull of Mannar
  - (b) Western Ghats
  - (c) Pachmarhi
  - (d) Sunderbans
- (ix) Which of the following is an air pollutant?
- (a) Nitrogen
  - (b) Carbon monoxide
  - (c) Carbon dioxide
  - (d) Oxygen
- (x) Which of the following is not a method for water conservation?
- (a) Rainwater harvesting
  - (b) Ground water extraction
  - (c) Improving irrigation efficiency
  - (d) Avoiding water wastage

2. (a) Define the term deforestation.
- (b) Explain the common causes of deforestation around the world.
- (c) Explain the environmental impacts of deforestation.
- (d) Give suggestions to the problems of deforestation. (2 + 5 + 5 + 3 = 15)

3. (a) What are the renewable and non-renewable resources?  
(b) Briefly explain the uses of forest resources.  
(c) What are the benefits and problems of big dam?  
(5 + 5 + 5 = 15)
4. (a) What is biodiversity?  
(b) What are the levels of biodiversity?  
(c) Discuss the value of biodiversity.  
(d) Define rare, endangered and extinct species.  
(2 + 5 + 5 + 3 = 15)
5. (a) What is solid waste management?  
(b) What are sources of urban and industrial wastes?  
(c) How can the solid waste be managed?  
(d) How can you, as an individual, prevent environmental pollution? (2 + 4 + 4 + 5 = 15)
6. Write short notes : (any three)  
(a) Climate change.  
(b) 3-R approaches of sustainable development.  
(c) Levels of organization.  
(d) Laws to control pollution in India.  
(e) Sustainable development. (5 + 5 + 5 = 15)
7. (a) Define environment.  
(b) Briefly discuss the importance of environmental studies in contemporary society.  
(c) Explain the following terms :  
(i) Green – media.  
(ii) Green – marketing.  
(iii) Green – advocacy. (2 + 7 + 6 = 15)