Reg. No. :

Question Paper Code: 31185

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2017

Elective

Civil Engineering

01UCE925 - ENVIRONMENTAL SCIENCE AND ENGINEERING

(Common to ALL branches)

(Regulation 2013)

Duration: Three hours   Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1. Define environment and ecosystems.

2. Differentiate between food chain and food web.

3. What do you understand by endangered species and endemic species?

4. Mention the sources of water pollution.

5. Define food security.

6. Define recycling.

7. What are renewable resources?

8. What are the impacts of ozone layer depletion?

9. What are the common objectives of environmental legislation?

10. What are the objectives of water act?

PART - B (5 x 16 = 80 Marks)

11. (a) (i) Explain the concept of ecological succession and ecological pyramids. (8)

   (ii) What are the major factors that are responsible for the loss of biodiversity? Explain. (8)

Or

   (b) Discuss the natural and manmade impacts on water and air. (16)

12. (a) Explain in detail about the environmental quality objectives and goals. (16)

Or

   (b) (i) Describe about the properties of water and explain the biological importance of water. (8)

   (ii) What is land degradation? Discuss the factors responsible for land degradation. (8)

13. (a) Explain the control and prevention measures of municipal solid wastes in your area. (16)

Or

   (b) Define air pollution. List the sources of air pollutants and explain the methods to control air pollution. (16)

14. (a) Discuss briefly the different techniques in waste minimization. (16)

Or

   (b) (i) Discuss the role of an individual in pollution prevention. (8)

   (ii) Describe in detail about clean technology. (8)

15. (a) Explain in detail about Environmental Impact Assessment (EIA). (16)

Or

   (b) (i) Explain the salient features of the Wildlife Protection Act, 1972. (8)

   (ii) Describe the functions of state board and central board according to pollution control. (8)

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