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**Question Paper Code: 39125**

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2018

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. What is meant by energy flow in an ecosystem?
2. Define sustainable development.
3. List out the water borne diseases.
4. Define biodiversity.
5. What is green house effect?
6. Define recycling.
7. What are renewable resources?
8. What are the impacts of ozone layer depletion?
9. Define environmental impact assessment.
10. What are the objectives of water act?

PART - B (5 x 16 = 80 Marks)

11. (a) (i) Explain in detail about the structure and functional components of ecosystem. (8)

(ii) Briefly explain water cycle and oxygen cycle. (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) Write an essay on the impact of dams on people? What are the benefits and negative impacts on people? (16)

13. (a) Explain the primary and secondary treatment of municipal sewage with flow diagram. (16)

Or

(b) Discuss about causes, effects and preventive measures of global warming and ozone layer depletion. (16)

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

Or

(b) Explicit waste minimization techniques. (16)

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)