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Question Paper Code: 39125

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2022

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. Mention any four sources of air pollution.
5. Define biodiversity.
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 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) Discuss solid waste management in detail. (16)

Or

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

14. (a) Briefly explain the engineering interventions to reduce the stress on air. (16)

Or

(b) Explicit waste minimization techniques. (16)

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

Or

(b) Explain in detail about the water act 1974 and air act 1981. (16)
