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Question Paper Code: 39125

B.E. / B.Tech. DEGREE EXAMINATION, MAY 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. Enumerate some characteristics of an Ecosystem.
2. Differentiate between food chain and food web.
3. Mention any four sources of air pollution.
4. Define biodiversity.
5. What is green house effect?
6. Define recycling.
7. What are renewable resources?
8. What are the objectives of waste water treatment?
9. Define environmental impact assessment.
10. Write a short note on Kyoto protocol.

PART - B (5 x 16 = 80 Marks)

11. (a) Discuss the aquatic ecosystem and forest ecosystem. (16)

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) Explain the physical, chemical and biological characteristics of water and air. (16)

13. (a) Explain the primary and secondary treatment of municipal sewage with flow diagram. (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) Briefly explain the engineering interventions to reduce the stress on air. (16)

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

Or

(b) Write briefly on the community participation in environmental management programmes. (16)