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**Question Paper Code: 11005**

B.E. / B.Tech. DEGREE EXAMINATION, APRIL 2015.

Second Semester

Civil Engineering

01UCY204 - ENVIRONMENTAL SCIENCE

(Common to all branches)

(Regulation 2013)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions.

PART A - (10 x 2 = 20 Marks)

1. What are the different types of eco-systems?
2. Differentiate between renewable and non-renewable energy resources.
3. Define photochemical smog.
4. What are the different types of pollution?
5. What is genetic and species biodiversity?
6. Define overgrazing.
7. What is meant by sustainable development?
8. Mention the objectives of public awareness.
9. What is meant by Value Education?
10. What is the role of information technology in reducing the human population?

PART - B (5 x 16 = 80 Marks)

11. (a) Explain in detail about bio-diversity in global, national and local level. (16)

Or

- (b) Briefly explain about
- (i) Food chain (4)
  - (ii) Food web (4)
  - (ii) Ecological pyramids (6)
12. (a) (i) What do you mean by air pollution? Enumerate the sources and effects of air pollution. (8)
- (ii) What is thermal pollution? Explain its effect. (8)

Or

- (b) (i) Explain the major water pollutants and their effects. (8)
- (ii) How are solid wastes classified? Describe briefly the various methods of solid waste management and disposal. (8)
13. (a) (i) Discuss the traditional and modern agriculture and its effects on environment. (8)
- (ii) Explain in detail the role of an individual in conservation of natural resources. (8)

Or

- (b) (i) Discuss briefly the consequences of overdrawing and exploitation of ground water. (8)
- (ii) Explain the environmental impacts of mining. (8)
14. (a) (i) What is watershed management? Explain the objectives and management techniques of watershed management. (8)
- (ii) Discuss the effects and control measures of acid rain. (8)

Or

- (b) Explain in detail about
- (i) Wild life protection. (8)
  - (ii) Forest conservation act. (8)
15. (a) (i) Explain the variation in population growth among various nations. (8)
- (ii) Explain briefly the mode of transmission of AIDS. How AIDS can be controlled? (8)

Or

- (b) Explain in detail about the role of information technology in environment and human health. (16)