

**L 1068**

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2006.

Second Semester

Computer Science and Engineering

CY 1201 — ENVIRONMENTAL SCIENCE AND ENGINEERING

(Common to Bio-Medical, Electronics and Communication Engineering and  
Information Technology and BE (PT) R 2005 First Semester Civil, EEE,  
ECE and CSE)

(Regulation 2004)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Write any two functions of forests.
2. What are the advantages in conjunctive use of water?
3. What are the classifications of biotic components of ecosystems?
4. What is food chain and food web?
5. Write any four major water pollutants.
6. Write briefly how human activities can introduce thermal pollution in to streams.
7. How CFC's are accumulated in atmosphere?
8. Define hazardous waste.
9. What are the causes of deforestation?
10. List the problems of population growth.

PART B --- (5 × 16 = 80 marks)

11. (i) Briefly discuss the structural and functional components of an ecosystem. (8)

(ii) Explain the following :

(1) Forest ecosystem

(2) Ecological succession. (4 + 4 = 8)

12. (a) Explain the following

(i) Over utilization of surface and ground water. (8)

(ii) Adverse effects of agricultural practices away from the farm. (8)

Or

(b) Discuss the different types of energy sources. (16)

13. (a) (i) Briefly explain the conservation of bio-diversity. (8)

(ii) Explain : The grass land ecosystem. (8)

Or

(b) Write short notes on the following :

(i) Energy flow in eco-system. (6)

(ii) Pond eco-system. (5)

(iii) Threats to bio-diversity. (5)

14. (a) (i) Explain the effect of CO, SO<sub>2</sub>, Hydrocarbons and chromium on human beings. (8)

(ii) Explain the effects of nuclear and Radiation Pollution. (8)

Or

(b) Discuss the causes and effects of the following

(i) Global warming

(ii) Acid Rain. (8 + 8)

15. (a) (i) Discuss the objectives for prevention of hazardous wastes. (8)
- (ii) Write a note on integrated wasteland development programme. (8)

Or

- (b) Write notes on the following in relation to human population and environment

(i) Women and Child welfare. (4)

(ii) Human rights. (6)

(iii) Value Education. (6)

(8)

(8)

(16)

(8)

(8)

(6)

(5)

(5)

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(8)

(8)

(8 + 8)

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