

B.E./B.Tech. Degree Examination, May / June 2006

Second Semester

Computer Science and Engineering

CY1201 – Environmental Science and Engineering

(Semester Part - Time B.E. – Regulations 2005)

Time : Three hours

Maximum : 100 marks

Answer ALL questions

Part A - (10 × 2 = 20 marks)

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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 into 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 conservation of bio-diversity. (8)
ii. Explain: The grassland ecosystem. (8)

Or

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(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 effects of CO, SO₂, 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 (8 + 8)
 - ii. Acid Rain
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)