

C 3169

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2007.

Second Semester

(Regulation 2004)

Computer Science and Engineering

CY 1201 — ENVIRONMENTAL SCIENCE AND ENGINEERING

(Common to Electronics and Communication Engineering, Biomedical Engineering,
Information Technology)

(Common to B.E. (Part-Time – First Semester – Regulation 2005))

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Explain deforestation.
2. Mention few non-renewable energy sources.
3. What is food chain?
4. Define endangered species.
5. Define air pollution.
6. Define noise pollution.
7. Define the concept of sustainable development.
8. What is acid rain?
9. Define population equilibrium.
10. Explain total fertility rate.

PART B — (5 × 16 = 80 marks)

11. (a) (i) What are the causes for soil erosion and desertification? Explain in detail. (8)
- (ii) Discuss the consequences of overdrawing surface and ground water. (8)

Or

- (b) Write briefly on :
- (i) Biomass energy. (5)
- (ii) Geothermal energy. (5)
- (iii) Tidal power. (6)
12. (a) (i) What is Biodiversity and explain the reasons for its decline. (8)
- (ii) Discuss the most important advantages of ecosystems. (8)

Or

- (b) (i) Define : (9)
- Producers
Consumers and
Decomposers.
- (ii) Discuss energy flow into the ecosystem. (7)
13. (a) Write briefly on
- (i) Control measures of water pollution. (8)
- (ii) Land disposal of solid waste. (8)

Or

- (b) Write briefly on :
- (i) Flue gas desulfurization (8)
- (ii) Particulate control. (8)
14. (a) (i) Discuss the agenda for sustainable development. (8)
- (ii) Write briefly on nuclear accidents. (8)

Or

- (b) Briefly discuss :
- (i) Air (Prevention and Control of Pollution) act 1981. (8)
- (ii) Ozone layer depletion. (8)

15. (a) Briefly explain :

- (i) Maximum sustainable yield in population. (5)
- (ii) Logistic growth in population. (5)
- (iii) Population momentum. (6)

Or

(b) Discuss briefly on the following :

- (i) Factors influencing family size. (6)
 - (ii) Family planning (5)
 - (iii) AIDS in developing countries. (5)
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