

Reg. No. :

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K 4227

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2009.

Third Semester

(Regulation 2004)

Civil Engineering

CY 1201 — ENVIRONMENTAL SCIENCE AND ENGINEERING

(Common to B.E./B.Tech. Second Semester Bio-Medical Engineering, Electronics and Communication Engineering, Computer Science and Engineering) (Common to all Branches of B.E./B.Tech Third Semester except Bio-Medical Engineering, Information Technology, Food Technology and Petroleum Engineering) (Common to B.Tech Fifth Semester Food Technology) (And also Common to B.E. (Part-Time) First Semester Computer Science and Engineering, Civil Engineering, Electrical and Electronics Engineering, Electronics and Communication, Second Semester Mechanical Engineering .Regulation 2005)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. How would environmental awareness help to protect our environment?
2. What is aquifer? Mention its types.
3. Give flow chart on Energy flow in an ecosystem.
4. Name any two extinct species of India.
5. What is green chemistry?
6. How do Tsunami occur?
7. List the advantages of watershed projects.
8. Write the salient features of Forest Conservation Act' 1980.
9. What is meant by doubling time? What is the doubling time for India?
10. What are the objectives of family welfare program in India?

PART B — (5 × 16 = 80 marks)

11. (a) (i) Briefly explain the soil conservation practices adopted in India. (8)
(ii) Explain the environmental damage caused by mining activities. Illustrate one case study. (8)

Or

- (b) Enumerate the following
- (i) Tidal power. (6)
 - (ii) Geothermal energy. (5)
 - (iii) Biomass energy. (5)

12. (a) What is biodiversity? How is it classified? Explain the values of biodiversity. (16)

Or

- (b) Write note on the following
- (i) Ecological succession. (6)
 - (ii) Phosphorus Cycle. (4)
 - (iii) Aquatic ecosystem. (6)

13. (a) (i) Discuss the causes, effects and control measures of any one of the following. (8)
(1) Noise Pollution.
(2) Air Pollution.
- (ii) How can you, as an individual, prevent environmental pollution? Why such an effort at an individual level is important? (8)

Or

- (b) What adverse effects can solid wastes cause? How can the solid waste be managed? (16)

14. (a) (i) Describe the various water conservation strategies. (8)
(ii) Enumerate on environmental ethics. (8)

Or

(b) (i) Population, Consumerism and waste production are interrelated-
Comment. (8)

(ii) Briefly explain the occurrence, effect and control measures of acid
rain. (8)

15. (a) What are the major role of IT in environment and human health? (16)

Or

(b) (i) Give a brief account on various issues and measures of women and
child welfare in India. (8)

(ii) Write the origin, mode of transmission, symptom and control
measures of AIDS. (8)