

**M 2037**

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

Third Semester

Civil Engineering

CY 1201 — ENVIRONMENTAL SCIENCE AND ENGINEERING

(Common to All branches EXCEPT Bio-medical Engineering Computer Science and Engineering, Information Technology and Common to First Semester B.E. (P-T). Mechanical Engineering)

(Regulation 2005)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Name few mineral resources available in India.
2. What is meant by erosion?
3. Define Food Chain.
4. Name the few endangered wild life species of India.
5. Define Noise Pollution.
6. What is meant by photochemical smog?
7. Define Acid rain.
8. What is the difference between rehabilitation and resettlement?
9. Expand the terms HIV and AIDS.
10. List out few family welfare programmes in India.

PART B — (5 × 16 = 80 marks)

11. (i) Explain the term “population explosion”. (6)
- (ii) Describe the role of Information Technology in Environment and human health. (10)

12. (a) (i) What are the energy resources available in India? (6)  
(ii) Explain the non-renewable energy resources available to meet the growing energy needs of India. (10)

Or

- (b) (i) Describe the scope and importance of forest resources and their over exploitation. (8)  
(ii) Explain the conflicts over water and dams in India. (8)
13. (a) What are the different types of Eco-system and explain them with an example? (16)

Or

- (b) (i) Explain the biodiversity of India. (8)  
(ii) Describe in-situ and ex-situ conservation of bio-diversity. (8)
14. (a) (i) What are the causes and effects of air pollution? (6)  
(ii) What are the control methods for soil pollution? (4)  
(iii) Explain how marine pollution can be controlled? (6)

Or

- (b) (i) Describe the various natural disasters. (8)  
(ii) Explain the role of individuals in the prevention of pollution. (8)
15. (a) (i) What is meant by sustainable development? (8)  
(ii) Explain the urban problems related to water and how it can be tackled. (8)

Or

- (b) (i) Explain the salient features of water and air pollution prevention act. (8)  
(ii) Write short notes on global warming and ozone layer depletion. (8)