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Question Paper Code : P 1226

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2009.

Second Semester

Information Technology

CY 1201 — ENVIRONMENTAL SCIENCE AND ENGINEERING

(Common to Fifth Semester Automobile/Production/Aeronautical/Metallurgical/
Biomedical/Mechatronics/Mechanical/Information Technology)

(Regulation 2004)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are the over utilization of ground water resources?
2. What is water logging? What is its adverse effect?
3. What is ecological pyramid? Why is pyramid of energy always take up-right?
4. Define 'Hot spots of Biodiversity'.
5. What do you understand by ozone depletion in the atmosphere? What are the reasons for the formation of ozone hole in the atmosphere?
6. List out the adverse effect of marine pollution on the environment.
7. Distinguish between COD and BOD. Why COD value is always higher than BOD value?
8. Define Decibel. Why is each tenfold increase represented by 10 dB?
9. What are the environmental factors that affect human health?
10. What are the effects of population explosion?

PART B — (5 × 16 = 80 marks)

11. (a) Write a detailed note on renewable and non-renewable energy sources. (16)

Or

- (b) Give a brief account of the major uses of forests. Justify that the ecological uses of forest surpass commercial uses. List out the major causes and consequences of deforestation. (4 + 4 + 8 = 16)
12. (a) Discuss the structure and functions of grassland and aquatic ecosystems. (16)

Or

- (b) What do you understand about "Biodiversity"? Discuss the different levels of hierarchical levels to understand the concept of biodiversity. List out the major threats to biodiversity. (4 + 6 + 6 = 16)
13. (a) What are primary air pollutants? Discuss the effect of air pollutants on materials, plant and animals. Explain any one method to control particulate pollutants. (4 + 6 + 6 = 16)

Or

- (b) Write an explanatory note on "Disaster Management". (16)
14. (a) Critically comment on acid rain and green house effect. (8 + 8 = 16)

Or

- (b) Discuss the major "Environmental Protection Rules, 1986". What are the issues involved in enforcement of environmental legislation? (16)
15. (a) Discuss the Indian scenario on population explosion. Explain the family welfare and family planning program in Indian context. (16)

Or

- (b) What is the prime objective of value education? How can environmental education be made value-based? (16)