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Question Paper Code : 91521

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2014.

Third Semester

Electrical and Electronics Engineering

GE 2211/GE 33/080300008/080130067/10177 GE 001/10177 GE 001 A —
ENVIRONMENTAL SCIENCE AND ENGINEERING

(Common to Chemical Engineering, Textile Technology, Instrumentation and Control Engineering, Biotechnology, Plastic Technology, Electronics and Instrumentation Engineering, Polymer Technology and Textile Technology (Fashion Technology))

(Also common to 10177 GE 001 for Biotechnology, Electrical and Electronics Engineering, Electronics and Instrumentation Engineering, Instrumentation and Control Engineering and 10177 GE 001 A for Chemical Engineering)

(Regulation 2008/2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is deforestation?
2. What are the consequences of overgrazing?
3. What are man induced land slides?
4. Define "Ecological succession".
5. Differentiate between 'endangered' and "epidemic" species.
6. What is the value of Bio-diversity?
7. Define 'noise pollution'.
8. Define 'Sustainable development'.
9. Write a short note on Wild life protection act.
10. What is meant by "Population explosion"?

PART B — (5 × 16 = 80 marks)

11. (a) (i) Briefly explain the forest resources, its use and over exploitation. (8)
(ii) What is the need for soil conservation? Write briefly about different soil conservation practices in India. (8)

Or

- (b) (i) Discuss the advantages and limitations of constructions of dams and reservoirs. (8)
(ii) Discuss the major World's food problems and suggest possible ways to solve the problems. (8)
12. (a) (i) Explain the energy flow that occurs in an ecosystem. (8)
(ii) What is a hotspot? What are the biodiversity hotspots in India? Explain. (8)

Or

- (b) (i) Discuss the salient features of either a forest or a marine ecosystem. (8)
(ii) Write briefly on the importance and values of biodiversity reserves. (8)
13. (a) (i) Narrate the effects of air pollutants on the health of man. (8)
(ii) Explain the sanitary landfill and its advantages and limitations. (8)

Or

- (b) (i) Explain the sources of marine pollution. (8)
(ii) How would you manage the floods and cyclones? What are the precautionary measures to be adopted in such occurrences? (8)
14. (a) (i) What is acid rain? What are its impacts on the man and the environment? (8)
(ii) Explain the agenda of 'sustainable development'. (8)

Or

- (b) (i) What are the objectives of water shed management? Explain. (8)
(ii) Explain the adverse effects of ozone layer depletion. (8)
15. (a) (i) Explain the factors influencing the family size and its impact on the economy of a society. (8)
(ii) Discuss the reasons and methods to prevent AIDS. (8)

Or

- (b) (i) Explain the role of IT in Environmental protection. (8)
(ii) Discuss the various schemes for Women and Childcare in India. (8)