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8/6/13 FN

Reg. No. :

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Question Paper Code : 21469

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2013.

Third Semester

Electrical and Electronics Engineering

GE 2211/ GE 33/ HS 1201 / 080300008/ 080130067 — 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 Chemical Engineering)

(Regulation 2008/2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. State the reasons of over exploitation of forests.
2. Write the ways of drought management.
3. Give the significance of food chain and food web.
4. Mention the abiotic components.
5. How does Tsunami occur?
6. Name the sources of soil pollution.
7. Define Green house effect.
8. List the Ozone depleting chemicals.
9. When does environment affect the human health?
10. What is meant by remote sensing?

PART B — (5 × 16 = 80 marks)

11. (a) (i) Enumerate the effects of modern agriculture. (8)
(ii) Write a note on wind energy and tidal power. (8)

Or

- (b) (i) Explain the causes of land degradation. (8)
(ii) Discuss the environmental damage caused by mining activities. (8)
12. (a) (i) Describe the types, characteristic features, structure and function of desert ecosystem. (8)
(ii) Classify the values of biodiversity in detail. (8)

Or

- (b) (i) Give the types and process of ecological succession. (8)
(ii) "India is a mega diversity nation" — Discuss. (8)
13. (a) (i) Give an account of landslides. (8)
(ii) Briefly write the control measures of air pollution. (8)

Or

- (b) (i) Indicate the causes and effects of water pollution. (8)
(ii) How is thermal pollution controlled? (8)
14. (a) Discuss the following:
(i) Nuclear Holocaust. (5)
(ii) Important features of forest conservation act. (5)
(iii) Methods of waste land reclamation. (6)

Or

- (b) Explain the following:
(i) Solutions of urban energy problem (5)
(ii) Approaches of sustainable development. (5)
(iii) Consumerism and waste products. (6)

15. (a) (i) Justify the need of value education. (8)
(ii) List the causes, effects and control measures of population growth. (8)

Or

- (b) (i) Write an account on women welfare. (8)
(ii) What are the symptoms of AIDS? Describe the control and preventive measures. (8)
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