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B.E. / B.Tech. (Full Time) DEGREE END SEMESTER EXAMINATIONS, APRIL / MAY 2011.

COMMON TO AERONAUTICAL, AUTOMOBILE, ECE, INDUSTRIAL, MANUFACTURING, MATERIAL SCIENCE, MECHANICAL, PRODUCTION AND RUBBER & PLASTICS TECHNOLOGY BRANCHES

SECOND SEMESTER

GE 9261 ENVIRONMENTAL SCIENCE AND ENGINEERING

(REGULATIONS -2008)

Time: 3 Hr

Maximum Marks: 100

- Instructions: 1.....
 2.....

Answer ALL Questions.

Part- A (10 x 2 = 20 marks)

1. Define the term ecology.
2. What are the criteria for recognizing hot spots?
3. What is In-situ conservation of Biodiversity.
4. Differentiate between composting and vermicomposting.
5. Define thermal pollution.
6. Differentiate between renewable and non-renewable energy resources with examples.
7. Write any four measures to prevent desertification.
8. How is acid rain formed?
9. Explain the term sustainable development.
10. Define the term population density.

Part - B (5 x 16 = 80 marks)

11. (i) Explain the Biogeographical classification of India. (8)
 (ii) Explain the role of producers, consumers and decomposers in an ecosystem.
 Write about the flow of energy through these components in the ecosystem. (8)
12. a) (i) Describe the best approach to solid waste management. (10)
 (ii) What are nuclear hazards? Explain the effects and the disposal of nuclear Hazardous wastes. (6)

(or)

- b) (i) What are various Pre- and Post- Disaster Management Strategies? Explain with any two examples. (8)
(ii) Explain the causes, effects and control measures of soil pollution. (8)
13. a) (i) Write a detailed account of renewable energy sources. (10)
(ii) Explain the adverse environmental impacts of modern agriculture. (6)

(or)

- b) Write short notes for the following:
- (i) Mineral resources (6)
 - (ii) Causes and effects of Deforestation (6)
 - (iii) Uses and over utilization of ground water resources. (4)
14. a) (i) What is green house effect? How does it contribute to global warming and suggest possible solution for its control. (10)
(ii) Describe the salient features of Environmental Acts with respect to Wildlife protection and forest conservation. (6)

(or)

- b) (i) Write a detailed account of the components, methods and advantages of rain water harvesting. (10)
(ii) Discuss the causes and effects of ozone layer depletion. (6)
15. a) (i) Explain the role of information technology in the environment and human health. (10)
(ii) Write a note on population explosion. (6)

(or)

- b) (i) Discuss the importance of women welfare programs and the role of Women in the society. (8)
(ii) Discuss the salient features of forest ecosystem. (8)
