

FACULTY OF ENGINEERING AND INFORMATICS
B.E. 2/4 (E & EE/Inst./Mech./Prod./IT) (Semester – I) (Main)
Examination, December 2011
ENVIRONMENTAL STUDIES

Time : 3 Hours]

[Max. Marks : 75

Note : Answer *all* questions from Part A. Answer *any five* questions from Part B.

PART – A

(25 Marks)



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| 1. Distinguish hydrosphere and lithosphere. | 3 |
| 2. Differentiate between evergreen and deciduous forest ecosystems. | 3 |
| 3. What are the fertilizer-pesticide problems ? | 2 |
| 4. Write a short note on stropic nutritional level. | 3 |
| 5. Write the characteristics of an artificial ecosystem. | 2 |
| 6. State the significance and importance of environmental protection through legislation. | 3 |
| 7. State the sources of marine pollution. | 2 |
| 8. What are the harmful effects due to the presence of green house gases in the atmosphere ? | 2 |
| 9. Write the Environmental Ethics and state its significance in promoting environmental awareness. | 3 |
| 10. State the purpose of Environmental Protection Act. | 2 |

PART – B

(50 Marks)

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| 11. a) Write the merits and demerits of hydropower plants. | 5 |
| b) Write a note on renewable and non-renewable energy sources. | 5 |
| 12. a) Explain in detail the genetic biodiversity and species diversity. | 4 |
| b) What are the patterns and principles governing energy flow through an ecosystem ? | 6 |

13. a) Write the use of ecological pyramids in the context of ecological imbalances. 5
b) Discuss the use of bio-energy and scope of utilization in Indian context. 5
14. a) Describe the characteristic features, structure and functions of the ocean eco-system. 4
b) Discuss the importance of ozone layer and explain the possible causes and consequences of depletion of ozone layer. 6
15. a) What are the hazards associated with use of plastics ? 4
b) Write the endangered Indian common species. 6
16. a) What are the sources and effects of Noise Pollution and Water Pollution ? Suggest few remedies. 5
b) Briefly outline the various methods adopted for the prevention and control of soil pollution. 5
17. Discuss the constitution, duties and powers of the Wild Life Advisory Board under the preventions of the Wild Life Protection Act, 1972. 10