

**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 and answer any five questions from Part B.**

PART – A

(25 Marks)



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)

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