

**FACULTIES OF ENGINEERING AND INFORMATICS**  
**B.E. IV/IV Year (ECE/Mech./Prod./IT) II Semester**  
**(Main) Examination, April 2006**

**(New)**

**ENVIRONMENTAL STUDIES**

*Time : 3 Hours]*

*[Max. Marks : 75*

*Answer all questions of Part A.*  
*Answer five questions from Part B.*

**Part A – (Marks :  $10 \times 2.5 = 25$ )**

1. What is over utilization of surface and ground water? Explain the reasons and suggest some measures to control the over utilization.
2. Explain the advantages and troubles associated with the construction of dams with examples.
3. Define and explain "Food Chain" in any ecosystem.
4. Draw the sketch of aquatic ecosystem and explain the details.
5. What is species diversity? Explain.
6. Write a note on conservation of biodiversity.
7. Discuss thermal pollution and its problems.
8. Define solid waste and mention the sources of solid wastes and their problems on the society.
9. What is environmental ethics? How do they help man and his society and environment in particular?
10. What is acid rain? Explain its formation, consequences and control measures.

**Part B – (Marks :  $5 \times 10 = 50$ )**

11. Describe the problems and solutions of use of fertilizers, pesticides, water logging in Indian agriculture sector.
12. Define ecosystem. Discuss the primary functions of ecosystems. Explain the complete structure of any ecosystem and write various features that govern the ecosystem dynamics.

[P.T.O.]

13. Write short notes on the following:

- (a) Water conservation
- (b) Watershed management
- (c) Global warming
- (d) Population Explosion
- (e) Climate changes.

14. Write short notes with examples and remedies on the following:

- (a) Air pollution
- (b) Water pollution
- (c) Soil pollution
- (d) Thermal pollution
- (e) Noise pollution.

15. What are the characteristics of Solid Wastes? Describe various methods available (with neat sketch and salient features) for handling, treatment, management of industrial and municipal solid wastes.

16. (a) Discuss the biogeographical classification of biodiversity with a special reference to our country.
- (b) Write a detailed note on endangered species and endemic species in biodiversity areas and their protection.

17. (a) Discuss the threats to biodiversity and describe the value of biodiversity.
- (b) Write a note on the growing energy needs in our country and explain how these challenges can be fulfilled.