

**B.COM  
SEMESTER II  
ENVIRONMENTAL STUDIES - II  
50 Marks 38 Lectures**

**UNIT I. Environmental Pollution (15 Marks – 10 Lectures)**  
a) Definition a) Air pollution b) Water pollution c) Soil pollution d) Marine pollution e) Noise pollution f) Thermal pollution g) Nuclear hazards  
**Solid waste Management: Causes, effects and control measures of urban and industrial wastes.**  
**Role of an individual in prevention of pollution.**  
**Pollution case studies.**  
**Disaster management: floods, earthquake, cyclone and landslides.**

**II. Social Issues and the Environment (15 Marks -10 Lectures)**  
**From Unsustainable to Sustainable development**  
**Urban problems related to energy**  
**Water conservation, rain water harvesting, watershed management.**  
**Resettlement and rehabilitation of people; its problems and concerns. Case studies.**

**Environmental ethics: Issues and possible solutions.**  
**Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case studies.**  
**Wasteland reclamation. Consumerism and waste products. Environment Protection Act.**  
**Air (Prevention and Control of Pollution) Act. Water (Prevention and control of Pollution) Act Wildlife Protection Act**  
**Forest Conservation Act**  
**Issues involved in enforcement of environmental legislation. Public awareness**

**III. Human Population and the Environment (15 Marks – 10 Lectures)**  
**Population growth, variation among nations.**  
**Population explosion - Family Welfare Programme.**  
**Environment and human health.**  
**Human Rights.**  
**Value Education.**  
**HIV; AIDS.**  
**Women and Child Welfare.**  
**Role of information Technology in Environment and human health.**  
**Case Studies**

**IV. Field work (05 Marks - 08 Lectures)**  
**Visit to a local area to document environmental assets-river /forest/ Grassland/ hill/ mountain Visit to a local polluted site - Urban! Rural Industrial Agricultural**  
**Study of common plants, insects, birds.**  
**Study of simple ecosystems-pond, river, hill slopes, etc. (Field work Equal to 5 lecture hours).**

**Weightage: . ISA: 10 + S.E.E: 40 Total= 50.**

## **INSTRUCTIONS**

1. Maximum thrust may be given to local regional and national examples.
  2. Q. No. 1 being objective it should include questions from all units of the term.
  3. Questions should be set with due weightage to all the units as specified
- Pedagogic suggestion: The Current topic of Regional & National interest have to be updated by referring to subject journals - Down to Earth, Current Science, Yojna and Other relevant materials.

## **Books for Study and Reference**

1. Agarwal, K.C. 2001 Environmental Biology, Nidi Pub!. Ltd. Bikaner.
2. Bharucha Erach, The Biodiversity of India, Mapin Publishing Pvt. Ltd. , Ahmedabad - 380013, India, Email: [mapin@icenet.net](mailto:mapin@icenet.net) ( R )
3. Brunner RC., 1989, Hazardous Waste Incineration, McGraw Hill Inc. 480p
4. Clark RS., Marine Pollution, Clanderson Press Oxford (TB)
5. Cunningham, W.P. Cooper, TH. Gorhani, E & Hepworth, M. T2001, Environmental Encyclopedia, Jaico Pub!. House, Mumbai, 1196p
6. De A.K., Environmental Chemistry, Wiley Eastern Ltd.
7. Down to Earth, Centre for Science and Environment( R )
8. Gleick, H.P. 1993. Water in crisis, Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute. Oxford Univ. Press. 473p
9. Hawkins R.E, Encyclopedia of Indian Natural History, Bombay Natural History Society, Bombay (R)
10. Heywood, VH & Watson, R.T. 1995. Global Biodiversity Assessment. Cambridge Univ. Press 1140p.
11. Jadhav, H & Bhosale, VM. 1995. Environmental Protection and Laws. Himalaya Pub. House, Delhi 284 p.
12. Mckinney, M.L. & SchocJ', R.M. 1996. Environmental Science systems & Solutions, Web enhanced edition. 639p.
13. Mhaskar A.K, Matter Hazardous, Techno-Science Publications (TB)
14. Miller TG. Jr., Environmental Science, Wadsworth Publishing Co. (TB)
15. Odum, E.P. 1971. Fundamentals of Ecology. W.B.Saunders Co. USA, 574p
16. Rao M N.& Datta, A.K. 1987. Waste Water treatment. Oxford & IBH Pub!. Co. Pvt.Ltd.
17. Sharma B.K., 2001. Environmental Chemistry. Goel Pub!. House, Meerut
18. Survey of the Environment, The Hindu (M)
19. Townsend C. , Harper J, and Michael Begon, Essentials of Ecology, Blackwell Science ( TB)
20. Trivedi R.K., Handbook of Environmental Laws, Rules, Guidelines, Compliances and Standards, Vol I and II, Enviro Media ( R )
21. Trivedi R.K. and P.K.Goel, Introduction to air pollution, Techno-Science Publications ( TB )
22. Wagner K.D., 1998. Environmental Management. W.B. Saunders Co. Philadelphia,

USA 499p (M) Magazine ( R )Reference (TB) Text book