

**College of Engineering, Pune**  
**End Semester Exam – April 2011**  
**S. Y. B. Tech.**  
**(AS 207 )- (Environmental awareness)**

Day & Date- 08/05/2011  
Maximum Marks: 50

Time: - 2 to 5 pm  
Duration – 3 hrs.

- Instructions:
- 1 Solve all the questions
  - 2 Figures to right indicates full marks.
  - 3 Do not keep mobile phones with you; the handsets will be retained permanently by exam cell.
  - 4 Draw figures where ever necessary

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- Q. 1**    **A**    **What are the significant laws that have been in force to protect air, water, biodiversity, vehicular emissions and environment?**    **5**
- B**    **Growing population and poverty are the basic causes of environmental degradation –explain.**    **5**
- Q. 2**    **A.**    **Explain the basic principles of an ecosystem with suitable examples.**    **5**
- B**    **Explain how almost every source of energy has its limits**    **5**
- Q. 3**    **A**    **Describe the state of urban air pollution in India? What is its impact on health? What are the measures the government is taking to reduce vehicle emissions? How did the quality of air improve in Delhi?**    **10**
- Q. 4**    **A**    **What are the major effects of increased levels of following pollutants in environment: CO<sub>2</sub> beyond 500 ppm, Cs\* > 30 ppm, SO<sub>x</sub> > 10 ppm, Plastic smoke > 120ppm, CFC > 200ppm, moisture > 3%, Hot water in large quantity in local river, pesticide residue in local nalla, sewage from hospital in river.**    **10**
- OR**
- A**    **Give an account of environmental disasters and their management**
- Q. 5**    **A**    **Explain the feasibility of the Jaitapur project in context with Japan's nuclear power plant accident**    **10**
- OR**
- A**    **Give an account of various conventional and renewable fuels and their utility for different applications.**    **10**