

**Elective-II : Environmental Management System**

P. Pages : 2

Time : Three Hours



**NJR/KS/18/4672**

Max. Marks : 80

- Notes :
1. All questions carry marks as indicated.
  2. Solve Question 1 OR Questions No. 2.
  3. Solve Question 3 OR Questions No. 4.
  4. Solve Question 5 OR Questions No. 6.
  5. Solve Question 7 OR Questions No. 8.
  6. Solve Question 9 OR Questions No. 10.
  7. Solve Question 11 OR Questions No. 12.
  8. Due credit will be given to neatness and adequate dimensions.
  9. Assume suitable data whenever necessary.
  10. Diagrams and chemical equations should be given whenever necessary.
  11. Illustrate your answers whenever necessary with the help of neat sketches.
  12. Use of non programmable calculator is permitted.

1. a) What are the issues and strategies of environmental management? 7  
b) Explain environmental reporting and certification. 7

**OR**

2. a) Explain ISO 1400 series. 7  
b) What are International voluntary standards? 7

3. Explain in detail about the pollution control acts, rules and notifications. 13

**OR**

4. a) What is Environmental Audit? 7  
b) Explain EMS certification. 6

5. Explain in detail the concept and methodology of Environmental impact Assessment. 13

**OR**

6. Write notes on 13  
i) Environmental clearance in India.  
ii) EIA case studies.

7. a) What are the methods of impact analysis? 7  
b) Explain cost benefit analysis and its dimension. 6

**OR**

8. Explain in detail the role of GIS in Environmental impact assessment. **13**
9. Write notes on **13**
- i) Fundamentals of hazards.
  - ii) Environmental Risk analysis.

**OR**

10. How you elaborate the term Risk assessment application to environment management problems. **13**
11. a) What is energy impact analysis? **7**
- b) Explain "Energy Inventory". **7**

**OR**

12. Write notes on **any two**. **14**
- i) Energy conservation.
  - ii) Energy alternatives.
  - iii) Energy inventory data.

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