

**M.Sc. Final Year (Environmental Science) Degree Examination,  
August/September 2008  
Directorate of Correspondence Course  
Paper – V : ENVIRONMENTAL POLLUTION AND MONITORING**

Time : 3 Hours

Max. Marks : 75

*Notes : Answer questions from all Parts.*

**PART – A  
(Short answer type)**

Answer any **SEVEN** of the following :

(7×3=21)

- 1) Soil organisms
- 2) Ambient Noise
- 3) Hazardous waste
- 4) Landfill gas
- 5) Air Quality Index (AQI)
- 6) Ozone layer depletion
- 7) Water sampling instruments
- 8) Air samples
- 9) Effects of acid rain
- 10) Pollutants and contaminants.

**PART – B**

Answer any **FOUR** of the following :

(4×6=24)

- 1) Give an account of monitoring air pollution.
- 2) Write a note on noise exposure levels and standards.

P.T.O.



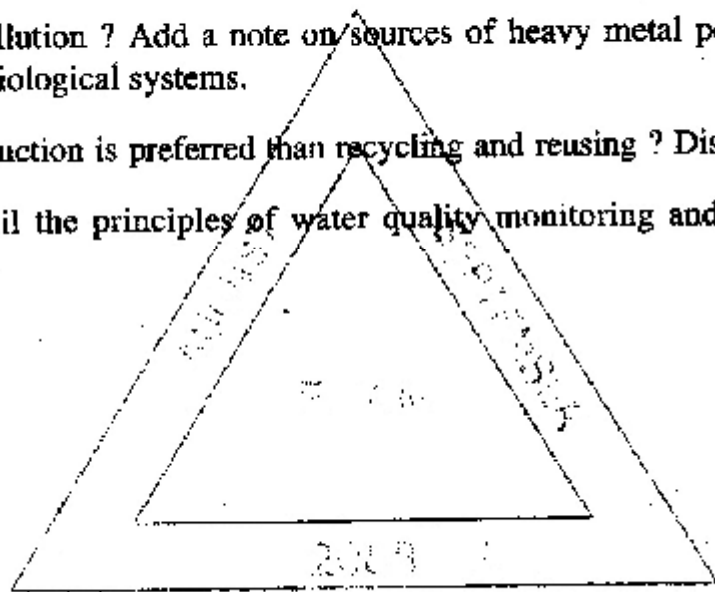
- 3) What are the effects of radioactive pollution ?
- 4) Illustrate sources of heavy metal and its effect on biological systems.
- 5) Discuss Marine pollution.
- 6) Explain the Chemistry of air pollutants.

**PART - C**  
**(Essay Type)**

Answer any TWO of the following :

(2×15=30)

- 1) What is soil pollution ? Add a note on sources of heavy metal pollutants and their effect on biological systems.
- 2) Why source reduction is preferred than recycling and reusing ? Discuss.
- 3) Explain in detail the principles of water quality monitoring and methods of water sampling.



**M.Sc. Final Year (Environmental Science) Degree Examination,  
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Paper – VI : ENVIRONMENTAL TOXICOLOGY AND BIOSTATISTICS**

Time : 3 Hours

Max. Marks : 75

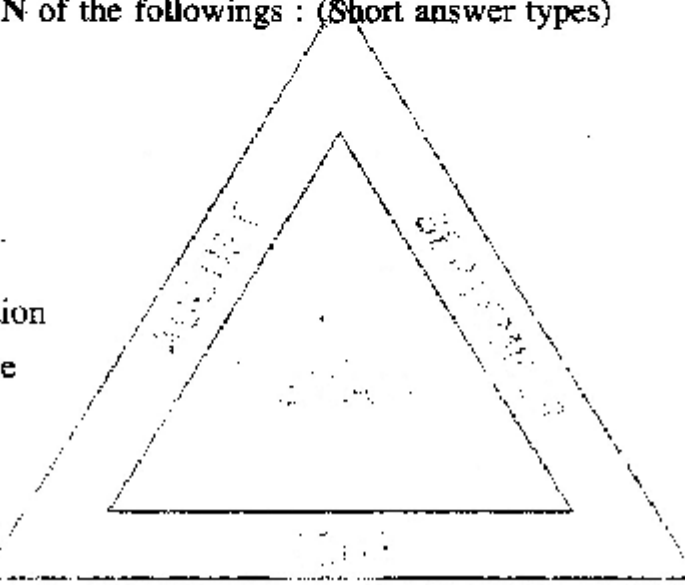
*Notes : Answer questions from all Parts.*

**PART – A**

Answer any **SEVEN** of the followings : (Short answer types)

(7×3=21)

1. Genital warts
2.  $LC_{50}$
3. Prostatitis
4. Data
5. Standard deviation
6. Frequency curve
7. Metal toxicity
8. Teratogenicity
9. Bioremediation
10. Detoxification

**PART – B**

Answer any **FOUR** of the following :

(4×6=24)

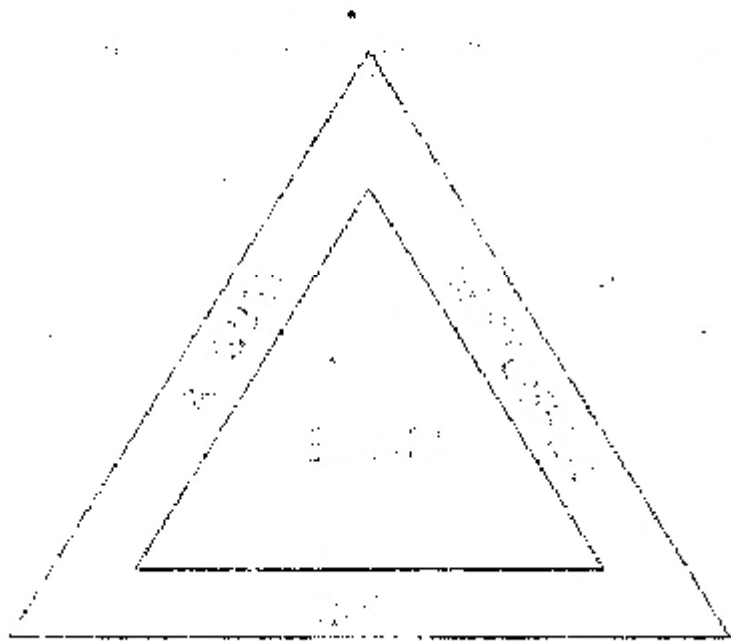
11. Differentiate acute and chronic toxicity.
12. Write the process of chemical hazard assessment.
13. What is environmental health management ?
14. Give an account on diagrammatic and graphic representation of data.
15. Describe the concepts of probability.
16. What is a regression analysis ?

P.T.O.

PART - C

Answer any TWO of the following : (Essay type) (2×15=30)

- 17. Write an essay on AIDS and add note on sexually transmitted diseases.
- 18. Give an account of effect of pollutants on plant communities.
- 19. Write a detailed note on practical problems in toxicity testing.





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ENVIRONMENTAL SCIENCE

Paper - VII : Environmental Engineering and Biotechnology

Time : 3 Hours

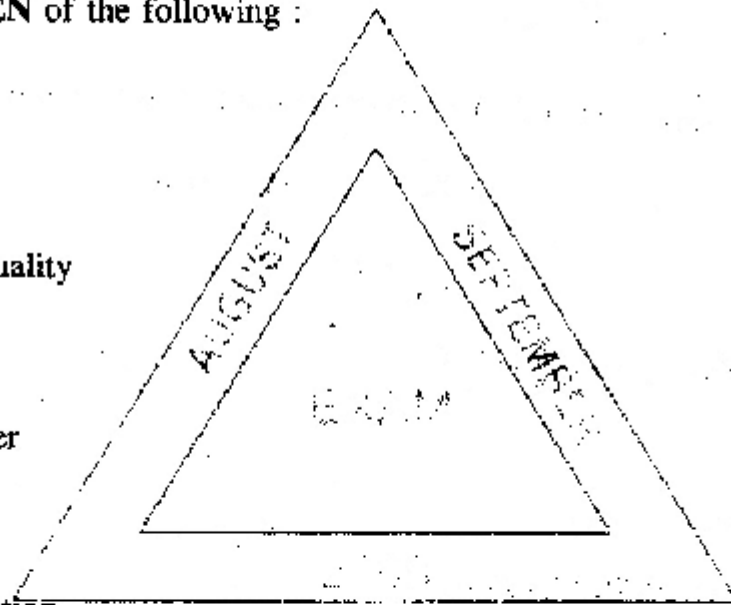
Max. Marks : 75

PART - A

Answer any SEVEN of the following :

(7×3=21)

1. Xenobiotics
2. Biofiltration
3. Indoor Air Quality
4. Septic Tank
5. Trickling Filter
6. Composting
7. Biomineralization
8. Anaerobic treatment
9. Biomining
10. Reverse Osmosis.





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ENVIRONMENTAL SCIENCE

Paper – VIII : Global Environmental Changes, Natural Hazards and Impact Assessment

Time : 3 Hours

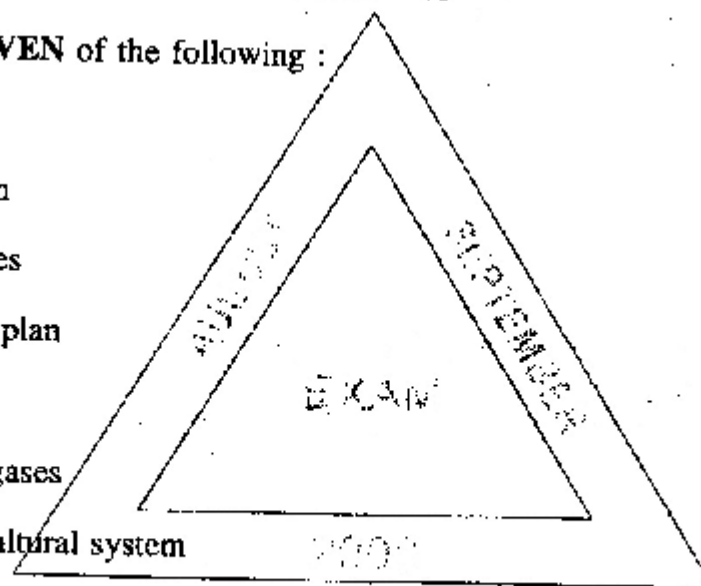
Max. Marks : 75

PART – A

Answer any SEVEN of the following :

(7×3=21)

1. Atmosphere
2. Desertification
3. Energy sources
4. Ganga action plan
5. Floods
6. Green house gases
7. Modern agricultural system
8. Eco-tourism
9. Environmental risk assessment
10. Ozone chemistry.



PART – B

Answer any FOUR of the following :

(4×6=24)

1. List the sources of lead in air environment.
2. What is EL.nino ? Explain its impact.
3. Explain the impacts of ozone depletion on plants.

P.T.O.



4. What are the techniques involved in predict natural hazards ?
5. What is environmental economics ? Explain the importance in environmental management.
6. Write a note on Bhopal gas incident.
7. Write the sources of Ganga water pollution.

PART - C

Answer any TWO of the following :

(2×15=30)

1. Write notes on :
  - a) Chernobyl accident
  - b) Volcanoes
  - c) Earth Quake.
2. Write the procedures of environmental impact analysis.
3. Discuss the environmental impact of modern agricultural practices.

