

Final Year M.Sc.,(Environmental Science) Degree Examination
August / September 2009
Directorate of Correspondence Course
(Freshers)

Paper - V : Environmental Pollution & Monitoring

Time : 3 Hours

Max. Marks : 85

Note : Answer questions from all the sections

Part A

Answer any FIVE of the following. (Short answer type)

5x2=10

1. Primary gaseous pollutants
2. Causer of water pollution
3. Industrial waste water
4. Oil spills control
5. Noise hazards
6. Thermal pollution
7. Sources of radiation
8. Air pollution effect on materials.

Part B

Answer any FIVE of the following

5x6=30

9. What is noise? Write the measures to control it?
10. Describe acid rain impact on water bodies.
11. Classify the major sources of air pollution,
12. What are the natural and anthropogenic sources of air pollution.
13. What are particulates? Explain their harmful effects on plants and animals.
14. Write preventive measures to control noise pollution.
15. Explain the impacts of global warming on the environment.

Section C

Answer any THREE of the following:

3x15=45

16. What are the physico- chemical analysis carried out to assess water quality? Explain.
17. Give a brief account of Ganga Action plan.
18. Describe the effects of oil pollution on marine life.
19. Write briefly about ozone layer and explain the chemistry of depletion ozone.

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Paper - (VI): Environmental Toxicology and Biostatistics

Time : 3 Hours

Max. Marks : 85

Note : Answer questions from all the sections

Part A

Answer any FIVE of the following. (Short answer type)

5x2=10

1. Pesticide residue
2. Phyto remediation
3. LC_{50}
4. Drug abuse
5. Plankton
6. Mutagens
7. Risk assessment
8. Mean and Mode

Part B

Answer any FIVE of the following

5x6=30

9. Differentiate between normal and cumulative distribution.
10. Write about metabolism of toxic substances by animals.
11. Give an account of hazardous wastes effect on soil organisms.
12. Discuss the usefulness of classification to tabulation of data.
13. Discuss the impact of environmental factors on human health.
14. Explain Variance and standard deviation.

Section C

Answer any THREE of the following:

3x15=45

15. Give a critical account on chemical hazard assessment and communication.
16. Discuss the scope of biostatistics and limitations of statistical method V/S experimental method.
17. Write an account on toxic effects of pollution on terrestrial animals.
18. Write the statistical methods used in research reports.

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Paper - VII : Environmental Engineering and Biotechnology

Time : 3 Hours

Max. Marks : 85

Note : Answer questions from all the sections

Part A

Answer any FIVE of the following.

5x2=10

1. Flocculation
2. Trickling filter
3. GEM's
4. Minamata episode
5. Disinfection
6. Super bugs
7. Aeroallergens
8. Sludge

Part B

Answer any FIVE of the following

5x6=30

9. Explain the secondary treatment of sewage
10. What is ground water remediation? Explain in brief
11. Describe the principles of solar energy utilisation
12. Explain the role of microbes in biogas production
13. Explain the process of reverse osmosis
14. What is aeromicrobiology? Explain its importance.
15. Explain the process of oil recovery from oil spills.

Section C

Answer any THREE of the following:

3x15=45

16. Discuss the methods involved in removal of particulate and gaseous air pollutants
17. Write an account on the DNA probing methods for detection of microbial pathogens in aquatic environments
18. Discuss microbes as biopesticides
19. Describe the advantages of vermitechnology and its relevance to organic farming.

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

Time : 3 Hours

Max. Marks : 85

Note : Answer questions from all the sections

Part A

Answer any FIVE of the following.

5x2=10

1. Stratosphere
2. Volcanic gases
3. Floods and storms
4. Methyl isocyanide incident
5. Environmental risk assessment
6. Ecotourism
7. El- Nino
8. Land use impact

Part B

Answer any FIVE of the following

5x6=30

9. Write a note on climate change and its consequences.
10. Give a specific reasons for depletion of ozone layer
11. Write an explanatory note on any one earthquake incidents reported in India.
12. Why Tajmahal is an environmental issue. Give the reasons
13. What are the objectives of EIA. Explain.
14. Discuss briefly the advantages of major reservoir projects.

Part C

Answer any THREE of the following:

3x15=45

15. Describe briefly the environmental issues of Tehri and Narmada dam.
16. Write briefly on environmental economics and cost benefit analysis.
17. Write a note on advantages of environmental audit. Add a note on usefulness of report.
18. What is green house effect. Explain causes and consequences.

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