

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

Paper - I : Introduction to Ecology and Environment

Time : 3 Hours

Max. Marks : 85

Section A

Write any FIVE of the following

5x2=10

1. Polymorphism
2. Ecological Pyramid
3. Rocky shore
4. Estuary
5. Commensalism
6. Tundra
7. Homeostasis
8. Ecological Niche

Section B

Answer any FIVE of the following

5x6=30

9. Explain Homeostasis and feedback mechanism.
10. Give an account on the Tropical rain forest.
11. Write brief note on the population dynamics.
12. Discuss the adaptations of Mangroves.
13. Classify freshwater ecosystems, giving their salient features.
14. Give an account of Ecological succession.

Section C

Answer any THREE of the following

3x15=45

15. Write an explanatory note on various types of ecosystems, highlighting their importance.
16. Discuss the nature of Energy flow in an aquatic ecosystem.
17. Characterise the salient components in community ecology with suitable examples.
18. Classify the various ecological subdivisions of Marine environment giving their salient features.

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Paper - II : Biodiversity and Natural Resources and Conservation

Time : 3 Hours

Max. Marks : 85

Note : Answer all the sections

Section A

Write any FIVE of the following

5x2=10

1. Ecosystem diversity
2. Xerophytes
3. Westernghats
4. Wild life habitat
5. Reasons of species extinction
6. Biosphere reserves
7. Biomes
8. Ex-situ conservation

Section B

Answer any FIVE of the following

5x6=30

9. Write the ecological benefits of rain forests
10. Write the causes of deforestation.
11. What is co- evolution. How co-evolution takes place.
12. What are invasive species. Explain the ecology.
13. Write a note on ecofriendly energy resources.
14. Explain Genetic and ecosystem diversity.
15. Write a note on biodiversity hotspots and its significance.

Section C

Answer any THREE of the following

3x15=45

16. Give reasons of major threats of biodiversity. Explain how to conserve endangered species.
17. Discuss the values of wetlands in preserving biodiversity.
18. Write briefly the current methods adopted for water resources management and conservation.
19. Describe the biodiversity of estuarine habitat. Explain unique features.

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Paper - III : Occupational Health Hazards Control and Management

Time : 3 Hours

Max. Marks : 85

Note : Answer all the sections**Section A****Write any FIVE of the following****5x2=10**

1. Occupational environment
2. Vibration hazards
3. Industrial Poisons
4. Material safety data sheet
5. Hand protection devices
6. Industrial Ventilation
7. Gaseous Pollutants
8. Welding cataract

Section B**Answer any FIVE of the following****5x6=30**

9. Write common symptoms of epidemic plague
10. What are the routes of transmitting anthrax disease.
11. Write a note on genetic effects of radiation.
12. Give a brief note on mercury pollution incidence.
13. Write a note on psychosocial hazards.
14. What are bioaerosols ? Explain diseases associated with.
15. Write a note on food hygiene. Add a note on food contamination.

Section C**Answer any THREE of the following****3x15=45**

16. Define epidemiology. Discuss life cycle of malaria disease. Add a note on consequence of outbreak of malaria.
17. What is industrial hygiene? Discuss briefly necessary environmental factors maintained at working environment.
18. Write briefly on sources of dust pollution. Explain respiratory diseases associated.
19. Mention the sources of Radioactive pollution. Explain health hazards of radiation.

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First Year M.Sc.,(Environmental Science) Degree Examination
August / September 2009
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Paper - IV : Environmental Education, Environmental Policy
and Legislation

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. Objectives of Environmental education.
2. Environmental ethics.
3. Mass media.
4. Earth summit
5. Formal education
6. EIA
7. Eco- marks
8. NGOS

Section B

Answer any FIVE of the following

5x6=30

9. Write a note on Environmental Protection Act 1986.
10. What is National River Conservation Plan (NRCP)?
11. What are the importance Parameters to assess the water quality? Explain.
12. Write the significance of environmental education and information.
13. What is joint forest management ? Explain National Forest Policy 1988.
14. Write the stages of formal environmental education.
15. Discuss the role of universities in Environmental education and Management.

Section C

Answer any THREE of the following: (Essay type)

3x15=45

16. Write briefly about Environmental laws in India
17. Discuss briefly the Bhopal gas tragedy and Bhopal Act judgment.
18. Discuss about informal education methods.
19. What are the primary objectives of Stockholm conference?
