WATER POLLUTION AND MANAGEMENT

Environmental Science

First Year

M.Sc. DEGREE EXAMINATION, DECEMBER 2010

(For the candidates admitted from 2007 onwards)

Q.P. Code: 07

Reg. No.

D 1729

1. What are the water borne diseases? Explain.

2. Write a note on Aeration and Disinfection.

3. Describe the process of aerobic and anaerobic methods of water purification.

4. Write a descriptive account on rural watershed management.


6. Describe the hydrological cycle with diagram.

7. Write an account on primary and secondary treatment of wastewater.

8. Compare with those of worldwide standards.

(5 × 20 = 100)

All questions carry equal marks.

Answer any FIVE questions.

Time: Three hours

Maximum: 100 marks
1. Write an essay on the control of pollution in the atmosphere.

2. Write an essay on the meteorological aspects connected with windrose diagrams.

3. Discuss about the history and effect of air pollution.

4. Describe the economic effects of air pollution.

5. Briefly encounter the gaseous pollutants present in the atmosphere and explain about the sampling in the atmosphere and measurement of particulate matters in the ambient air.

6. Write an account on the control measures of SO₂, NOₓ, CO, CO₂ and hydrocarbons.

7. Write an essay on the sources, effective and control measures of NOₓ, CO, CO₂ and hydrocarbons.


Answer any FIVE questions.

Time: Three hours

Maximum: 100 marks

AIR POLLUTION AND MANAGEMENT

Environmental Science

First Year

M.A.C. DEGREE EXAMINATION, DECEMBER 2010

(Please candidates admitted from 2007 onwards)

G.P. Code: [D 07 PES 02]

Ref No: D 1730
4. Write an account on MSW and their segregation.

3. Write about the essay on chemical based classification of hazardous wastes and their ecological effects.

2. Describe about the heavy metal pollution and their ecological effects.

1. What are the types of soil nutrients? (6 x 20 = 100)

Answer any FIVE questions.

Maximum: 100 marks

Time: Three hours

MANAGEMENT

SOIL POLLUTION AND SOLID WASTE

Environmental Science

First Year

M.Sc. DEGREE EXAMINATION, DECEMBER 2010

(For the candidates admitted from 2007 onwards)

Reg. No.: [ID 07 PE0 08]

D 1731
1. Write a note on electronic balances.
2. Describe the principle and procedure of UV spectrophotometry.
3. Write an account on the principles of AAS.
4. Describe the principles of conductivity meter.
5. Describe X-ray test with a sample data.

All questions carry equal marks.

Answer FIVE questions.

Time: Three hours

Maximum: 100 marks

INSTRUMENTAL METHODS OF ANALYSIS

Environmental Science
First Year

M.Sc. DEGREE EXAMINATION, DECEMBER 2010
(for the candidates admitted from 2007 onwards)

G.P. CODE: D07 RES 04

Reg. No.: [ ]
Write a note on the fossil fuels.

Write an account on the biomass induced energy.

Write an account on the management induced energy.

What are the ecological effects of nuclear radiation?

What are the ecological effects of nuclear energy?

Write an account on wind energy with examples.

Write a note on the concept of entropy.

(5 x 20 = 100)

All questions carry equal marks.

Answer any FIVE questions.

Time: Three hours

Maximum: 100 marks

MANAGEMENT OR ENERGY RESOURCES

Environmental Science

Second Year

M.Sc. DEGREE EXAMINATION, DECEMBER 2010

(for the candidates admitted from 2007 onwards)

G.P. Code: [D] 07 P.E.S 05

Ref. No.: 8

D 1758
1. Compare the renewable and non-renewable energy.

2. Write a note on the water resource management in urban areas.

3. What is wilderness? Explain with examples of protected areas in India?

4. What are the environmental effects of mineral mining?

5. What are human induced varieties of onion species?

6. What is biodiversity hotspots, explain with examples from India?

7. Write a note on mineral resources of sea. 

All questions carry equal marks.

Answer any FIVE questions.

Time: Three hours

Maximum Marks: 100 marks

NATURAL RESOURCES AND CONSERVATION

Environmental Science

Second Year

M.Sc. DEGREE EXAMINATION, DECEMBER 2010

For the candidates admitted from 2007 onwards

P.R. Code: [07} P.E.S. 06

Reg. No.:
6. Write a note on activated sludge process.
5. Write a note on the design of stock.
4. Explain anaerobic digestion.
3. Write a detailed note on oxidation ponds in STP.
2. What is sedimentation STP? Explain with example.
1. What is reverse osmosis? Explain.

All questions carry equal marks.

Answer any five questions.

Maximum: 100 marks

Time: Three hours

Environmental Engineering
Environmental Science
Second Year

M.Sc. Degree Examination, December 2010
(for the candidates admitted from 2007 onwards)
Write a note on the coastal zone regulation.

Describe the concept of wetland ecosystems.

Describe the general concept of cleaner production.

What are the EIA methods in assessing surface waters?

What are the EIA guidelines followed in India?

Hydro Power Projects

Assess the forest ecosystem in development of

Enzymes and Pumps and soil mechanics.

Describe the assessment methods of soil moisture

Techniques

8. What are the environmental valuation

6. Describe the General concept of cleaner production

4. Waters?

3. What are the EIA guidelines followed in India?

2. Hydro Power Project.

1. Write a note on Environmental Inventory in

<table>
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<th>Question</th>
<th>Marks</th>
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</tbody>
</table>

All questions carry equal marks.

Answer any FIVE questions.

Maximum: 100 marks

Time: Three hours

Environmental Impact Assessment

Environmental Science

Second Year

MSc. DEGREE EXAMINATION, DECEMBER 2010

For the candidates admitted from 2007 onwards

D 1733

9. P. Code: [D 07 PES 08]

Reg. No.: