

Reg. No. :

D 1729

Q.P. Code : [D 07 PES 01]

(For the candidates admitted from 2007 onwards)

M.Sc. DEGREE EXAMINATION, DECEMBER 2010.

First Year

Environmental Science

WATER POLLUTION AND MANAGEMENT

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

All questions carry equal marks.

(5 × 20 = 100)

1. What are the water borne diseases? Explain.
2. Write a note on filtration and disinfection methods of water purification.
3. Describe the process of aerobic and anerobic treatment.
4. Write a descriptive account on rural watershed management.

5. Write a note on water prevention and control of pollution act 1974.
6. Describe the hydrological cycle with diagram.
7. Write an account on primary and secondary treatment of wastewater.
8. Describe the water quality standards in India and compare with those of worldwide standards.

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

(For the candidates admitted from 2007 onwards)

M.Sc. DEGREE EXAMINATION, DECEMBER 2010.

First Year

Environmental Science

AIR POLLUTION AND MANAGEMENT

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

(5 × 20 = 100)

1. Write an account on atmospheric dispersion and Windrose diagram.
2. Explain the meteorological aspects connected with air pollution.
3. Discuss about the history and effect of air pollutants on human health, animals, vegetation, material and structures.
4. Describe the economic effects of air pollution.

5. Briefly encounter the gaseous pollutants present in the atmosphere and explain about the sampling and measurement of particulate matters in the atmosphere.
6. Write an account on the control measures of SO_2 , NO_x , CO , CO_2 and hydrocarbons.
7. Write an essay on source, effects and control measures of noise pollution and briefly describe about the assessment and measurement of sound.
8. State air pollution and control of pollution Act 1981 and Motor vehicle Act 1988.

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Q.P. Code : [D 07 PES 03]

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M.Sc. DEGREE EXAMINATION, DECEMBER 2010.

First Year

Environmental Science

SOIL POLLUTION AND SOLID WASTE
MANAGEMENT

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

(5 × 20 = 100)

1. What are the types of soil nutrients in soil? Comment on its uses for plants and microbes.
2. Describe about the heavy metal pollution and their ecological effects.
3. Write about the essay on chemical based classification of hazardous wastes and their segregation.
4. Write an account on MSW and write their quantities and characteristics.

5. Comment on vermi composting and sanitary land fill methods in solid waste disposal.
6. Explain the physical chemical and biological methods of hazardous waste management.
7. Narrate the rules are launched in India for the management and handling of Biomedical wastes on 1998.
8. What are the types of chemical fertilizers and insecticides contamination in the soil and write their impacts?

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Q.P. Code : [D 07 PES 04]

(For the candidates admitted from 2007 onwards)

M.Sc. DEGREE EXAMINATION, DECEMBER 2010.

First Year

Environmental Science

INSTRUMENTAL METHODS OF ANALYSIS

Time : Three hours

Maximum : 100 marks

Answer FIVE questions.

All questions carry equal marks.

(5 × 20 = 100 marks)

1. Write a note on electrophoresis.
2. Describe the principle and procedure of UV spectrophotometer.
3. Write an account on the principles of AAS.
4. Describe the principles of conductometry.
5. Describe X^2 test with a sample data.

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6. Write a note on the limitations of analytical methods.

7. Write a note on Mass spectrophotometer.

8. What is a 't' test, describe with a sample data.

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D 1758

Q.P. Code : [D 07 PES 05]

(For the candidates admitted from 2007 onwards)

M.Sc. DEGREE EXAMINATION, DECEMBER 2010.

Second Year

Environmental Science

MANAGEMENT OF ENERGY RESOURCES

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

All questions carry equal marks.

(5 × 20 = 100)

1. Write a note on the concept of entropy.
2. Write an account on wind energy with examples.
3. What are the ecological effects of nuclear radiation?
4. Write an account on the biomass induced energy.
5. Write a note on the fossil fuels.

6. What are the advantages of natural gas?
7. Write an account on the composition of petroleum.
8. What are the economic programmes to save energy?

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D 1759

Q.P. Code : [D 07 PES 06]

(For the candidates admitted from 2007 onwards)

M.Sc. DEGREE EXAMINATION, DECEMBER 2010.

Second Year

Environmental Science

NATURAL RESOURCES AND CONSERVATION

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

All questions carry equal marks.

(5 × 20 = 100)

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 variety of on species?
6. What is biodiversity hotspots, explain with examples from India?
7. What is germplasm and write a note on its benefits with examples?
8. Write a note on mineral resources of sea.

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7. What are the principles of biological treatment?

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8. What is cyclone collector explain?

(For the candidates admitted from 2007 onwards)

M.Sc. DEGREE EXAMINATION, DECEMBER 2010.

Second Year

Environmental Science

ENVIRONMENTAL ENGINEERING

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

All questions carry equal marks.

1. What is reverse osmosis? Explain.
2. What is sedimentation STP? explain with example?
3. Write a detailed note oxidation ponds in STP.
4. Explain anaerobic digestion.
5. Write a note on the design of stock.
6. Write a note on activated sludge process.

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

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M.Sc. DEGREE EXAMINATION, DECEMBER 2010.

Second Year

Environmental Science

ENVIRONMENTAL IMPACT ASSESSMENT

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

All questions carry equal marks.

(5 × 20 = 100 marks)

1. Write a note on Environmental Inventory in assessing the forest ecosystem in development of hydro power project.
2. What are the EIA guidelines followed in India?
3. What are the EIA methods in assessing surface waters?
4. Describe the concept of welfare economics.
5. Write a note on the coastal zone Regulation Notification 1991.

6. Describe the general concept of clearer production technologies.
7. Describe the assessment methods of soil micro flora and Funna and soil macroclimate.
8. What are the environmental valuation techniques?