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Reg. No. : .....

**D 1142**

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

(For the candidates admitted from 2007 onwards)

M.Sc. DEGREE EXAMINATION, DECEMBER 2013.

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. Write a note in Ganga action plan.
2. What are the parameters to be assessed for water quality for drinking water?
3. Write a note on the impact of agricultural run off on aquatic systems.
4. Explain the methods involved in removal of organic and inorganic wastes.

5. How nutrients will be removed from wastewater? Explain.
  6. What is the role of constructed wetland in waste water treatment?
  7. What are the concepts in watershed management?
  8. Write a note on water prevention and control of pollution Act 1974.
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Reg. No. : .....

D 1143

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

(For the candidates admitted from 2007 onwards)

M.Sc. DEGREE EXAMINATION, DECEMBER 2013.

First Year

Environmental Sciences

AIR POLLUTION AND MANAGEMENT

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

All questions carry equal marks.

1. Account in detail on the role of atmosphere in determining the weather conditions.
2. Discuss the effects of air pollutants on human health, animals and vegetation and economy.
3. Describe the Gaussian Plume Model and Windrose diagram for atmospheric dispersion.
4. Write an account on sampling and measurement of particulate matters and gaseous pollutants?

5. Briefly describe the gaseous emission control methods.
  6. Radiation emission and its effects- Explain.
  7. What are the effects of Noise pollution? List the basic principles of Noise control.
  8. Elaborate the various Acts on Air pollution Control.
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D 1144

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

(For the candidates admitted from 2007 onwards)

M.Sc. DEGREE EXAMINATION, DECEMBER 2013.

First Year

Environmental Science

SOIL POLLUTION AND SOLID WASTE  
MANAGEMENT

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

All questions carry equal marks.

(5 × 20 = 100)

1. What is the nature of soil in alluvial floodplain?
2. What is the role of microbes in soil conservation?
3. Write a note on the impact of agricultural run off on soil.
4. Classify the hazardous wastes.
5. Write a note on anerobic digestion in sanitary and land fills.

6. Give an account on the biomedical waste rules 1998.
  7. What are the treatment processes in unsegregated wastes?
  8. Write a note on resource recovery on waste processing.
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**D 1145**

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

(For the candidates admitted from 2007 onwards)

M.Sc. DEGREE EXAMINATION, DECEMBER 2013.

First Year

Environmental Science

**INSTRUMENTAL METHODS OF ANALYSIS**

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

All questions carry equal marks.

(5 × 20 = 100)

1. What are the advantages and limitations of chemical sensors?
2. Write a note on Infrared Absorption Spectroscopy.
3. Write a note on chromatographic analysis of water pollution.
4. Write a note on UV and visible spectrophotometry.

5. What are the principles and applications of naphelometry?
  6. Write a note on multiple regression.
  7. Write a note on mass spectrophotometry.
  8. What are the basic principles of NMR?
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