

Reg. No. : .....

**D 2160**

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

(For the candidates admitted from 2007 onwards)

M.Sc. DEGREE EXAMINATION, MAY 2013.

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 Magneto hydrodynamic generators.
2. Explain the methods in chemical reactions and nuclear reactions.
3. Write a note on fast breeder reactor.
4. Explain the advantages of using solar energy.
5. Write a note on methane fermentation.

6. Explain the composition of petroleum.
  7. Write a note on wind energy and its applications in the state of Tamil Nadu.
  8. What are environmental impacts of using nuclear energy?
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Reg. No. : .....

**D 2190**

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

(For the candidates admitted from 2007 onwards)

M.Sc. DEGREE EXAMINATION, MAY 2013.

Second Year

Environmental Science

**NATURAL RESOURCES OF CONSERVATION**

Time : Three hours

Maximum : 100 marks

Answer any FIVE Questions

All questions carry equal marks.

(5 × 20 = 100)

1. Write a detailed account on renewable energy resources and their conservation.
2. What are the properties of water? List some innovative approaches to water resource management.
3. How is soil resources distributed? Explain the soil problems and conservation methods.

4. Enumerate the importance of Natural Areas. Explain the measures to be taken to conserve these areas.
  5. Describe the environmental implications of mineral extraction and mining.
  6. Give a brief account on human implication on endangered and extinct species.
  7. Elucidate the importance of genetic resources conservation. List the issues involved in the release of genetic material.
  8. Land resources utilization and conservation-Discuss.
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Reg. No. : .....

**D 2191**

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

(For the candidates admitted from 2007 onwards)

**M.Sc. DEGREE EXAMINATION, MAY 2013.**

**Second Year**

**Environmental Science**

**ENVIRONMENTAL ENGINEERING**

**Time : Three hours**

**Maximum : 100 marks**

**Answer any FIVE questions.**

**All questions carry equal marks.**

**(5 × 20 = 100)**

**Give a detailed account on any FIVE of the following:**

- 1. Principle and design of plain sedimentation tank.**
- 2. Reverse Osmosis.**
- 3. Disinfection of water.**
- 4. Design of primary waste water treatment plant.**

5. Principle of biological treatment.
  6. Design of anaerobic digesters and septic tanks.
  7. Design and mechanism of electrostatic precipitator and cyclone collector.
  8. Principle and design of stack height.
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Reg. No. : .....

**D 2192**

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

(For the candidates admitted from 2007 onwards)

M.Sc. DEGREE EXAMINATION, MAY 2013.

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. What are the goals of EIA and list the organizations responsible.
2. Give an account on the criteria for water related projects.
3. Briefly discuss the environmental indicators of water quality.
4. Explain the methods of Assessment of surface and subsurface hydrology.

5. Give some cases of EIA in tannery industries.
  6. Cleaner production technologies-discuss.
  7. Write an account on Coastal regulation zone notification 1991.
  8. What is the status of EIA in India-Report.
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