

BE-202
B.E. I & II Semester
Examination, December 2012
Energy Environment Ecology and Society
(Grading System)
Time : Three Hours

Maximum Marks : 70

Note: 1) In all 5 questions have to be attempted.

2) Attempt 1 question from each unit.

Unit - 1

1. a) Define renewable & non renewable sources of energy with examples. Discuss the uses of solar energy for the water heating, space heating & production of electricity.
- b) Write a brief note on Hydral energy.

Or

2. a) What for nuclear reactors used? Draw & describe its various parts.
- b) What is solar pond? Give an account of merits & demerits of a solar pond.

Unit - 2

3. a) Define environment? How man effects his environment?
- b) What are biochemical cycles? Describe Carbon cycle with a neat sketch.

Or

4. a) What is ecosystem? Describe energy flow in an environment.
- b) Write a detailed note on biodiversity.

Unit - 3

5. a) What is atmosphere? Give its composition and explain the importance of atmosphere.
- b) Define air pollution. Discuss causes and effect of air pollution.

Or

6. a) Give an account of various chemical and photochemical reactions taking place in the atmosphere.
- b) What is sound pollution? Write the sources and adverse effects noise pollution?

[2]

Unit - 4

7. a) Discuss in detail aerobic and anaerobic waste water treatment methods with their advantages and disadvantages.
- b) Differentiate between :
 - i) Point and diffused sources of water pollution.
 - ii) Biodegradable and non biodegradable water pollutants.
 - iii) Organic & inorganic water pollutants.

Or

8. a) Define and describe components of :
Primary, secondary and tertiary treatment of water.
- b) What are major sources of soil pollution? Describe any three of them with respect to causes, adverse effects and controlling measures.

Unit - 5

9. a) What is meant by society and environment? How are these related to each other? Explain the impact of waste on society.
- b) Discuss methods of (i) Nuclear waste management (ii) Hospital waste management.

Or

10. a) What do you understand by ethics and moral values? Discuss the objectives of ethics with suitable examples. Give a brief account of various moral standards.
- b) Explain various methods of solid waste disposal and treatment.

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