

Roll No

BE - 202

B.E. I & II Semester Examination, December 2013

Energy Environment Ecology & Society

Time : Three Hours

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Maximum Marks : 70

Note: Attempt one question from each unit. All questions carry equal marks.

Unit - I

1. a) What is green energy? What are its sources?
b) How solar energy can be used for electricity generation and water heating?
2. a) Discuss the role played by the non-conventional energy resources towards the protection of the environment.
b) Describe the sources and waste management of nuclear power energy.

Unit - II

3. a) Define ecosystem. Explain the importance and functions of producers, consumers and decomposers in an ecosystem.
b) What are the factors responsible for loss of plant and genetic biodiversity. Discuss steps needed to prevent them.
4. a) Explain the term "Lapse rate" and temperature inversion" with reference to atmospheric structure.
b) Explain hydrological cycle and oxygen cycle.

Unit - III

5. a) Describe any two photochemical reactions occurring in the atmosphere.
b) Discuss the sources and effects of particulates in the atmosphere.
6. a) What is the normal audio frequency range for a young healthy person? Write physiological and psychological effects of noise.
b) What were Chernobyl disaster and Bhopal gas disaster?

Unit - IV

7. a) Discuss with the help of a diagram trickling filtration process for waste water treatment.
b) What are Equalisation and Neutralisation of waste water?
8. a) Describe the role of Urban waste and modern agro-technology in soil pollution. Give their adverse effects and controlling measures.
b) Describe the treatment for any common industrial waste water.

Unit - V

9. Explain plastic waste and e-waste and discuss their management strategies.
10. a) Write informative notes on "Ethical situations".
b) Write brief note on wild-life protection act.

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