

**BE - 202**  
**B.E. I & II Semester Examination, June 2014**  
**Energy Environment Ecology & Society**

Roll No .....

*Time : Three Hours*

*Maximum Marks : 70*

- Note:** i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.  
ii) All parts of each question are to be attempted at one place.  
iii) All questions carry equal marks, out of which part A and B (Max. 50 words) carry 2 marks, part C (Max. 100 words) carry 3 marks, part D (Max. 400 words) carry 7 marks.  
iv) Except numericals, Derivation, Design and Drawing etc.

**UNIT - I**

1. a) What are the different forms in which energy from biomass can be used? 2
- b) Classify different sources of geothermal energy. 2
- c) How can we classify WEC systems give advantages of wind energy? 3
- d) What are solar energy collector's? Describe different types of collectors. 7

OR

Write an essay on nuclear power plant and the sources of waste generation in its. 7

**UNIT - II**

2. a) Give objective of ecological study. 2
- b) Differentiate between biosphere and lithosphere. 2
- c) Explain non biological nitrogen fixation in nitrogen cycle. 3
- d) What is meant by biodiversity explain the three hierarchical levels of biodiversity? 7

OR

Write an explanatory note on conservation of biodiversity. 7

**UNIT - III**

3. a) What are the primary air pollutants give name of its? 2
- b) What is acid rain? How it is caused? 2
- c) Explain ozone layer depletion. 3
- d) Discuss the photo chemical smog. How is it formed in the atmosphere? 7

OR

Describe the method of noise pollution monitoring. 7

**UNIT - IV**

4. a) What are various water pollutions? 2
- b) What is soil profile? 2
- c) Describe impact of biodegradable organic in water. 3
- d) Discuss primary and secondary treatment of sewage and waste water. 7

OR

Describe soil pollution with its causes, effects and control. 7

**UNIT - V**

5. a) Explain theories of recycling of solid waste. 2
- b) Explain moral values. 2
- c) Give the preliminary idea about environmental protection act. 3
- d) Write briefly the idea of solid waste management. Distinguish between the incineration and composing of solid waste. 7

OR

Describe characteristics of an ethical person. 7

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