

Roll No .....

**ES-3001(AU/CE/CM/EC/ME/MI) (CBGS)****B.E. III Semester**

Examination, December 2017

**Choice Based Grading System (CBGS)****Energy, Environment, Ecology and Society***Time : Three Hours**Maximum Marks : 70***Note:** i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) What are the different types of energies which can be derived from the ocean? Explain in short giving their limitations and advantages. 7  
b) Discuss importance and limitations of solar energy. 7
2. Discuss the concept of ecosystem and explain the relationship among its different parts using a schematic diagram. 14
3. a) Explain four major air pollutants and their consequences on living beings. 7  
b) Discuss various measures used for controlling air pollution. 7
4. a) What are common sources of water pollution? Discuss various types of water pollutants giving their adverse effects on living system. 7  
b) Write various effects of land pollution. How do industrial, agro products and pesticides deteriorate the soil? 7

5. What is meant by value and value based education? Discuss these concepts giving appropriate examples. 14
6. Write short notes on (any two) of following: 7 each  
a) Photochemical smog  
b) Solid waste management  
c) Wind energy  
d) Industrial waste water treatment
7. a) Discuss decibel scale for the measurement of sound. 7  
b) Write an explanatory note on Acid Rain. 7
8. Write short notes on (any two) of following: 7 each  
a) Structure of Atmosphere  
b) Ethics and Moral values  
c) Ozone layer depletion  
d) Biodiversity

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