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**ES-3001(AU/CE/CM/EC/ME/MI)-CBGS**

**B.E. III Semester**

Examination, June 2020

**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 is Energy? Discuss Geothermal, hydel and solar energy sources. 8
- b) Discuss importance and limitations of nuclear energy. 6
  
2. Explain about cycles in Ecosystem. 14
  - a) Water cycle
  - b) Carbon cycle
  - c) Nitrogen cycle
  
3. a) Explain about (any two): 7
  - i) Air pollutants
  - ii) Photochemical smog
  - iii) Sound pollution
- b) Discuss various measures used for controlling air pollution. 7

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4. a) Write about classification of water pollutants. 4  
b) Write short notes on (any two) of the following: 10  
i) Soil pollutants  
ii) Industrial waste water treatment  
iii) Soil profile
5. Write brief notes on: 14  
i) Fossil fuel  
ii) Biomass energy  
iii) Wind energy
6. a) Write about sound pollution. Explain measurement of sound pollution. 7  
b) What is Acid rain? Write its consequences and preventive measures. 7
7. Write short notes on any two of the following: 14  
i) Ethics and moral values  
ii) Value education  
iii) e-waste
8. a) Explain Biodiversity. Discuss threat and conservation of biodiversity. 7  
b) Describe structure of atmosphere giving various zones. 7

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