

**Dr. Babasaheb Ambedkar Technological University Lonere-Raigad**  
**Mid Semester Examination: October 2017**  
**Class: B. Tech. (Mech, Chem, Petro, Civil) Semester: I**  
**Subject: Energy and Environmental Engineering (EEE)**

**Time: 1 hour**

**Maximum Marks: 20**

**Instructions:** 1. All questions are compulsory however, there are few internal choices  
2. Figures to the right indicate full marks

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***Solve the following:***

- 1) Define the following: (2×4=8)  
a) Economizer in Thermal power plant  
b) Photoconduction in PV solar cell  
c) Principle of MHD Generator  
d) Cogeneration for energy conservation

***Solve any Three of the following:*** (4×3=12)

- 2) What are the main advantages and disadvantages of biomass energy? Write four each.
- 3) What are the various principles of energy conservation? Discuss.
- 4) Compare the relative characteristics of HAWT and VAWT in wind power.
- 5) Identify the power plants for the following places.  
a) Bakreshwar in West Bengal b) Idukki in Kerala c) Kavaratti in Lakshwdeep d) Paras in Maharashtra

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