

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

Solve the following:

- 1) Define the following: (2×4=8)
- a) Energy Efficiency
 - b) Anaerobic digestion of biomass
 - c) Fuel cell
 - d) Combustor in Gas turbine power plant

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

- 2) What is the present status of Nuclear energy in India and what are its future prospects?
- 3) How do you reduce the energy consumption of house hold refrigerator? Write at least five to six techniques.
- 4) Enumerate at least five applications of solar PV cell energy. Discuss in brief any one of them.
- 5) Which type of power plants the following places have?
- a) Kaiga in Karnataka
 - b) Charanka in Gujarat
 - c) Jaisalmer in Rajasthan
 - d) Unai in Maharashtra
