

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE –
RAIGAD -402 103
Mid Semester Examination – October - 2017

Branch: F.Y.B.Tech Group A**Sem.:- I****Subject with Subject Code:- Energy & Environmental Engineering (CHE106)**
Marks: 20**Date:-5 October 2017****Time:- 1 Hr.**

Instructions:- 1. Figures to the right indicate full marks
2. Clearly mention the main question number along with the sub questions.

(Marks)

Q.No.1 **1) Define the following:** **(3 X 2 = 06)**
a) Principle of MHD Generator
b) Anaerobic digestion of biomass
c) Fuel cell

Q.No.2 **Attempt any one of the following:** **(6 X 1 = 06)**
a) What is the present status of Nuclear energy in India and what are its future prospects?

b) Enumerate at least five applications of solar PV cell energy. Discuss in detail any one of them with a neat sketch.

Q.No. 3. **Attempt any two of the following** **(2 X 4 = 08)**
a) Identify the power plants for the following places.
i) Bakreshwar in West Bengal ii) Idukki in Kerala iii) Kavaratti in Lakshwdeep iv) Paras in Maharashtra

b) Compare the relative characteristics of HAWT and VAWT in wind power.

c) Explain the working principle of Gas turbine power plant with a neat sketch.

