

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.

