



KERALA AGRICULTURAL UNIVERSITY
B.Tech.(Agri. Engg.) 2022 & Previous Admissions
VI Semester Final Examination - June 2025

Fpme.3215

Energy Technology for Renewable Power Production (2+0)

Marks: 50
Time: 2 hours

I Fill in the blanks

(10x1=10)

1. Bio-char isform of energy source.
2. The full form of CNG is
3. In the given formula $\Omega = \rho g Q s$ the letter "g" denotes
4. andare basic components of nuclear power reactor.
5.andare the two types of OTEC.

State True or False

6. Water is the combustion product of hydrogen.
7. Flue gas contains oxides and monoxides.
8. Impulse turbine is not a type of steam turbine.
9. Solar energy is also considered as Geothermal energy.
10. Hydrogen production from water is known as gray hydrogen.

II Write short on ANY FIVE of the following

(5x2=10)

1. Define Photovoltaic Systems.
2. Give a short note about "energy resources in India".
3. Write the function of aero generator.
4. Write any four disadvantages of Tidel energy.
5. How to classify the oil burners?
6. Define Magneto hydro dynamic effect.
7. Write the types of hydropower plants.

III Answer ANY FIVE of the following

(5x4=20)

1. Describe biogas production and its application.
2. Write a short note about waste to energy.
3. Differentiate renewable and non renewable energy.
4. Describe the process to produce solid fuels from biomass.
5. Write about flue gas and its influence to environment.
6. Write your views on geothermal energy and its environmental impact.
7. Write the advantages of hydrogen fuel cell.

IV Write an essay on ANY ONE of the following

(1x10=10)

1. Describe detailed notes about the potentials of renewable energy and current status of renewable energy in India.
2. Define Wind energy, function of wind turbine with its major application and disadvantages.
