KERALA AGRICULTURAL UNIVERSITY

B.Sc. Hons (Ag) 2009 admission VIth Semester Final Examination, June /July 2012

Cat. No: Eng.3204 Title: Renewable Energy (1+0)	Marks: 80 Time: 3hours
	d = n nd sold
	(10x1 = 10)
A farm labour can develop an average power output of	
The efficiency of petrol engine varies between to	
3. Plant matter created by the process of is ca	
 During gas generation process in a biogas plant, the w the bacteria called 	
5. The equipment used to tap wind energy is called	m t administration to
6 are used to directly convert solar energy to	electrical energy.
 The temperature of Earth increases by about towards the earth crust. 	1922
The wing in the ministry of India to develop and de energy for supplementing the energy requirements of the	
9. Biodiesel is mainly made from and	
10. Bioethanol is an alcohol made by the process of	of Cellulosic biomass.
II. Write short notes on ANY TEN	(10x3 = 30)
Flat Plate collector.	
2. Geothermal Energy.	
3. Bio-diesel.	
4. Briquetting.	
5. Savonius type rotor.	
6. Energy conversion in solar pumping system.	
7. Pyrolysis in gasifier.	
8. Solar ponds.	
9. Tracking.	
10. Coefficient of performance of wind mill.	
11. Chemical composition of biogas.	
12. Semiconductors used in photovoltaic cells.	

III. Write short escays on ANY SIX

(6x5 = 30)

- 1. Use of solar energy.
- 2. Components of wind mill.
- 3. Important sources of renewable energy.
- 4. What is tidal energy and how it can be tapped?
- 5. Digester in a biogas plant.
- 6. Briefly explain different types of liquid bio-fuels.
- 7. Differentiate burning and combustion.
- 8. List the energy sources from ocean.

IV. Write essay on ANY ONE

(1x10 = 10)

- 1. Explain the working of solar photovoltaic cells with neat sketch.
- 2. Explain the types of wind mills with neat sketches.