KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Ag. 2012 Admission
VI th Semester Final Examination- July /August -2015

Cat. No: Engg.3204 Title: Renewable Energy (1+0)	Marks: 80 Time: 3 hours
Fill up the blanks/Pick the correct answers: (10x1=10) 1. Biogas is a mixture of and Carbon dioxide.	
Janta and Deenhandhu biogas plants are examples of	biogas plant.
3. The optimum temperature for maximum production of biogas from slurr	y is
Wind speed is measured by	
The energy in wind is proportional to the of its velocity.	
6. The best orientation of a solar plate collector is facing	
7. Solar radiation absorbed by the atmosphere is about	
a. Zero % b. 5% c.10-20% d. More thn 50%	
(8) Pyranometer is used for collecting	
a. Wind Energy b. Tide energy c. Fusion energy d. Solar energy	rgy
Digester is a essential part of	
u. William generator of Labrah energy systems	rgy conversion
system d. Biomass energy conversion system	
10) The main constituent of producer gas is	
a. Carbon monoxide b. Freon c. Carbon dioxide d. Methane	•
2. Bio fuels 3. Gasification 4. Pyrolysis 5. Solar Cooker 6. Photovoltaic cell 7. Pye heliometers Wind Pump 9. Solar Pond 10. Vertical Axis Rotor 11. Acid Formers 12. Wind mill Write short essays on any six of the following 1. Biomass and its multi-purpose utilization 2. Phenomena of wind generated on earth's surface. 3. Non- Conventional Sources of energy 4. Advantages and disadvantages of photo-voltaic solar energy conversion 5. Different types of Gasifiers 6. Briquettes and types of Briquetting. 6. Constraints in production of liquid bio fuels. 8. Integration of renewable energy systems.ods	
Write essay on (any one) (1x10=10)	
n and a state of the state of t	.
Construction and working of a fixed dome type biogas plant with neat sketch. Solar energy and methods of collection of solar energy	п.