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

Cat. No: Engg.3204 Marks: 80 Title: Renewable Energy (1+0) Time: 3 hours 1. Fill up the blanks/Pick the correct answers: (10x1=10)1. Biogas is a mixture of ---- and Carbon dioxide. 2. Janta and Deenbandhu biogas plants are examples of ---------biogas plant. 3. The optimum temperature for maximum production of biogas from slurry is -----4. Wind speed is measured by -----5. 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 Zero % b. 5% c.10-20% d. More thn 50% 8. Pyranometer is used for collecting b. Tide energy c. Fusion energy d. Solar energy a. Wind Energy 9. Digester is a essential part of č. Wind energy conversion a. M.H.D generator b. Fusion energy system system d. Biomass energy conversion system 10. The main constituent of producer gas is a. Carbon monoxide b. Freon d.Methane c Carbon dioxide (10x3=30)II. Write short notes on (any ten) 1. Anaerobic Digestion 2. Bio fuels 3. Gasification 4. Pyrolysis 5. Solar Cooker 6. Photovoltaic cell 7. Pye heliometers 8. Wind Pump 9. Solar Pond 10. Vertical Axis Rotor 11. Acid Formers 12.Wind mill Write short essays on any six of the following (6x5=30)III. 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. 7. Constraints in production of liquid bio fuels. 8. Integration of renewable energy systems.ods

(1x10=10)

1. Construction and working of a fixed dome type biogas plant with neat sketch.

Write essay on (any one)

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