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## KERALA AGRICULTURAL UNIVERSITY

## B.Tech. (Food, Engg.)

## One-Time Re-examination-February-2018 2014 Admission VII Semester

Energy for Food Industries (1+1)

Marks: 50 Time: 2 hours Fill in the Blanks (10x1=10).....is an example for Primary Energy Source. .....is an example of renewable source of energy. Photovoltaic energy is the conversion of sunlight into..... Solar energy can be used to cook food in a ..... State True or False Wind energy can be used to run flour mill. In solar water heater, hot water is not available to use at night. Grasses are examples of biomass. Biogas is used for lighting applications. Define the following 10 Waste heat Answer any FIVE of the following (5x2=10)Anaerobic digestion of organic matter Different classification of wind mills Advantages of solar energy Secondary energy sources with examples Energy management and its fundamental goal Application of Biomass gasification in food industries Benefits of Waste Heat Recovery Answer any FIVE of the following. (5x4=20)Liquid flat plate collector with neat diagram. Solar air heater (Flat plate collector for heating air) Generation of electricity in solar cells. Solar PV sprayer. Disadvantages of PV system. Uses of Photovoltaic (PV) Systems. Different Process Zones in gasifier systems. Write an essay on any ONE of the following (1x10=10)Concentrating collector