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Total No. of Pages : 02

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B.Sc. (Agriculture) (2014 to 2018)
(Sem.-6)**RENEWABLE ENERGY****Subject Code : BSAG-608****M.Code : 74351****Time : 3 Hrs.****Max. Marks : 60****INSTRUCTIONS TO CANDIDATES :**

1. **SECTION-A is COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **FIVE** questions carrying **FIVE** marks each and students have to attempt any **FOUR** questions.
3. **SECTION-C** contains **THREE** questions carrying **TEN** marks each and students have to attempt any **TWO** questions.

SECTION-A**1. Write short notes on :**

- (a) Biomass.
- (b) Non-commercial energy sources
- (c) Anaerobic digestion.
- (d) Solar constant.
- (e) Pyrolysis.
- (f) Terrestrial solar radiations.
- (g) Solar salt ponds.
- (h) Trans-esterification.
- (i) Bio-diesel.
- (j) Bee hive briquettes

SECTION-B

2. Discuss about “Briquettes: A promising fuel”.
3. Describe ethanol uses as a fuel in details.
4. What advantage solar air heaters have over the other solar heat collectors?
5. Classify the wind turbines based on axis of rotation and size of machines.
6. Write the operating principle of forced circulation solar water heater.

SECTION-C

7. Compare the piston press and screw press briquetting machine.
8. Discuss Deenbandhu biogas plant and draw its neat diagram.
9. Discuss the factors that effects the trans-esterification reaction.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.