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Total No. of Questions: 09

B.Sc. Agriculture (2014 & Onwards)

(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.
- SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

Write short notes on:

- on FirstRanker.com (a) Renewable source of energy
- (b) Agricultural residue
- (c) Batch type biogas plant
- (d) Equivalence ratio
- (e) Heating value
- (f) Gasifier
- (g) Trans-esterification
- (h) Hydraulic retention time
- Solar constant
- (i) Briquetting



SECTION-B

- Discuss the direct and indirect sources of energy.
- Describe working of a biogas plant (with the help of diagram).
- Write a short note on throat-less downdraft gasfier.
- 5. What is an evacuated tube collector and how it works?
- Discuss natural circulation pressurised solar water heater along with diagram.

SECTION-C

- Discuss in detail the different factors that affects the biogas fermentation.
- What is bio-diesel? What are its advantages? Give at least five reasons that clearly justify its development.
- What types of sites are suitable for wind energy conversion system? Discuss different criterion for selecting the site for a wind energy conversion system.

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.

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