

Roll No.

Total No. of Pages : 02

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B.Sc. (Agriculture) (Sem.-4)
RENEWABLE ENERGY AND GREEN TECHNOLOGY

Subject Code : BSAG-403-19

M.Code : 79742

Date of Examination : 06-07-22

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 briefly :**

- a) Energy crisis
- b) Bee hive briquettes
- c) Pyrolysis
- d) Gasifier
- e) Alcoholic fermentation
- f) Batch type biogas plant
- g) Heating value
- h) Trans-esterification
- i) Declination
- j) Multi-reflector solar cooker.

SECTION-B

2. Discuss different stages of bio-gas generation and draw its neat flow diagram.
3. What are the advantages and disadvantages of focusing type solar collectors?
4. Write a short note on throat-less downdraft gasfier.
5. Classify the wind turbines based on axis of rotation and size of machines.
6. Discuss natural circulation pressurised solar water heater along with diagram.

SECTION-C

7. Discuss the criterion for selecting sites for wind energy conversion systems.
8. What types of sites are suitable for wind energy conversion system? Discuss different criterion for selecting the site for a wind energy conversion system.
9. Discuss the working of solar cookers along with neat diagram.

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.