	Roll No.													Total No. of Pages: 0	2
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Total No. of Questions: 09

B.Sc. (Agriculture) (2014 & Onwards) (Sem. – 6) RENEWABLE ENERGY

M Code: 74351 Subject Code: BSAG-608

Paper ID: [74351]

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 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 note on the following:
 - a) Solar constant
 - b) Non-commercial sources of energy
 - c) Wind energy
 - d) Solar pond
 - e) Solar dryers
 - f) Trans-esterification
 - g) Coefficient of performance
 - h) Briquetting
 - i) Pyrolysis
 - j) Bio-mass

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SECTION B

- 2. What are primary and secondary energy sources available on Indian farm?
- 3. Describe different component of wind mill.
- 4. What are producer gas and its utilization?
- 5. Define solar energy. Write its advantages and disadvantages of solar energy?
- 6. What are the site selection criteria for installation of wind mill?

SECTION C

- 7. What is solar energy? Describe solar flat plate and focusing plate solar energy collectors.
- 8. Write down the digester design considerations of biogas plant. What are the different factors considered for site selection of biogas plant?
- 9. Discuss energy requirement of rural consumers and state the possible alternative source of energy to meet the demand.

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