

7. Explain the direct type solar dryer. 10
8. Explain the pragati biogas plant with neat sketch. 10

B. Tech Odd Semester Examination, February, 2023

Agricultural Engineering (5th Semester)

Course No.: AE-505
(Renewable Energy Technologies)

Full Marks: 50

Pass Marks: 25

Time: 2 hours

- Note:**
1. Attempt any five questions.
 2. Begin each answer in a new page.
 3. Answer parts of a question at a place.
 4. Assume reasonable data wherever required.
 5. The figures in the right margin indicate full marks for the question.
 6. All the mathematical symbols and abbreviations have their usual meanings.
1. Define biomass, hydrolysis, retention time, solar hour angle, solar zenith angle and suns declination (Solve any 5). 2x5=10
 2. Explain the downdraft gasifier with neat sketch. 10
 3. (a) Explain the piston press briquetting machine with neat sketch. 7
(b) Write down applications of briquettes. 3
 4. Explain the solar distillation unit. 10
 5. Explain the parabolic solar cooker. 10
 6. Write down the advantages and disadvantage of biomass. 10

Turn Over