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Q. 1 Attempt following Questions by choosing option Biomass is described as

(d) Petroleum

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(c) Organic matter that can be converted to fuel (a) Large Living things (b) Inorganic matter that can be converted to fuel

A windmill is an example of a turbine (a) True (b) False

In which way does the Darrieus rotor spin

(a) Vertically (b) Horizontally (c) Both vertically & Horizontally (d)None of these

4. What is one example of Biomass

(a) Electricity (b) Trees (c) Wind (d) Water

5. By which process solar energy is converted into chemical energy

6. What is one disadvantage of renewable energy (a) Evaporation (b) Greenhouse effect (c) Photosynthesis (d) None of these

(a) Electricity & power could become much cheaper

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(b) 3rd world countries could have affordable energy

(d) Most sources are expensive to get started (c) Many people could become energy independent

Solve Any Two of the following

What are renewable and nonrenewable energy sources? Give applications

E

Describe the main considerations in selecting a site for wind energy generators

000 60

2 X 3

What are the instruments used for measuring solar radiations? Describe any two with sketches

Q. 3 Solve Any One of the following.

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Explain various types of solar radiations? Explain working of flat plate collectors

Explain briefly the construction of working of horizontal and vertical axis wind turbine with neat sketches. Discuss advantage and disadvantage of it.

CQ4

1 X 8

\*\*\* End \*\*\*



## DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Mid Semester Examination - Sep/Oct 2019

Course: B. Tech. in Chemical Engineering

Subject Name: Elective -I Renewable Energy Sources Sem: III

Max Marks: 20

Instructions to the Students:

2. If some part or parameter is noticed to be missing, you may appropriately assume it

(Level/C)

1 X 6 Marks and should mention it clearly.

Illustrate your answers with neat sketches, diagram etc., wherever necessary.

Duration: 1 Hr.

Date: - 9/10/2019

Subject Code:BTCHE306B

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