

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-I &II (SPFU) EXAMINATION - SUMMER-2019

Subject Code: TEE010 Date: 31/05/2019

Subject Name: RENEWABLE ENERGY

Time: 10:30 AM TO 01:30 PM **Total Marks: 70**

Instructions:

- 1. Attempt any five questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	Discuss advantages and disadvantages of solar energy.	07
	(b)	What is wind farm? Explain wind generator with its characteristics.	07
Q.2	(a)	Compare renewable energy sources with non renewable energy sources.	07
	(b)	Explain site selection procedure for wind mills for power generation.	07
Q.3	(a)	Explain microhydel system with its operating principle.	07
	(b)	Explain OTEC energy for power generation.	07
Q.4	(a)	Explain basic operational principles of solar cells.	07
	(b)	Explain in detail the applications of Solar Photovoltaic systems	07
Q.5	(a)	Explain wood gasifier with its advantages.	07
	(b)	Compare solar energy with wind energy with respect to electrical power generation.	07
Q.6	(a)	Explain tidal energy with its applications. Also write its advantages and disadvanatages.	07
	(b)	Explain different renewable energy sources development in India.	07
Q.7	(a)	Explain Biomass Pyrolysis process.	07
	(b)	Discuss about Stages of anaerobic digestion process	07

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