## DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE – RAIGAD – 402 103

Winter Semester Examination – December – 2019

Date: - 20/12/2019 Marks: 60	Time: 3 Hrs
Instructions to the Students  1. Each question carries 12 marks. 2. Attempt any five questions of the following. 3. Illustrate your answers with neat sketches, diagram etc., wherever necessary. 4. If some part or parameter is noticed to be missing, you may appropriately assume it and should mention it clearly.	
mention it clearly.	(Marks)
Q.1. Write notes on following topics a.) Energy Audit of Buildings.	(12)
b.) Considerations in implementing energy con	servation programmes.
Q.2. a) State the operation of utility monitoring and	control system. (06)
b) Which are the HVAC conditions and quantitic controlled?	
Q.3. a) Discuss energy-efficient motors with measure efficiency.	s adopted for energy (08)
b) Draw the Sankey diagram of an induction mo	
Q.4. Write the short notes on following. a) Multitasking solid-state meters.	(12)
<ul><li>b) The use of instrument transformers with water</li><li>c) Paralleling of current transformers.</li></ul>	t-hour and demand meters.
Q.5. Attempt any one sub-question of the following.	
a) Discuss the basic terms in lighting system and b) Explain classification of cogeneration systems	
Q.6. a) Explain the method of life cycle costing?	(06)
b) Write short notes on	(06)
i.) Return on Investment (ROI). ii.) Time Value of Money.	