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15EE653

## Sixth Semester B.E. Degree Examination, Aug./Sept. 2020 Energy Audit and Demand Side Management

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

		Module-1	
			(08 Marks)
1	a.	Explain now energy searces are classified by	(08 Marks)
	b.	Briefly explain Indian energy scenario.	(00 Marks)
		OR	
•			(08 Marks)
2	a.		(08 Marks)
	b.	write a note on data acquisition system and data loggers.	(00 1/141183)
		Module-2	
3	0	Briefly explain energy saving measures in furnace.	(08 Marks)
3	a. b.	With a neat diagram explain fire tube boiler.	(08 Marks)
	υ.	With a neutraligian explain the tast of the	
		OR	
4	a.	Discuss the role of excess air in boiler.	(08 Marks)
-	b.	Give the classification of furnace.	(08 Marks)
		Module-3	
5	a.	With a schematic diagram explain the components of air conditioning system.	(08 Marks)
	b.	List and explain load management technique.	(08 Marks)
		OR	(00 M1)
6	a.	Explain the causes and affect of harmonics.	(08 Marks)
	b.	Explain energy saving measures in HVAC.	(08 Marks)
		Madula	
_		Module-4 What are the methods used in energy conservation of a motor and explain in brief.	(08 Marks)
7	a.	Briefly explain different lighting control systems.	(08 Marks)
	b	Briefly explain different lighting control systems.	(001/14/10)
		OR	
8	a.	What are the limitations in adopting Energy Efficient Motor (EEM).	(08 Marks)
o	b.	Discuss the different energy saving opportunity in lighting system.	(08 Marks)
	0.	Biocuss and approximation of the contract of t	
		Module-5	
9	a.	What is Demand Side Management (DSM) and mention the benefits of DSM.	(08 Marks)
	b.	Discuss the methods of energy saving measures in new building.	(08 Marks)
		O.D.	
900-0		OR  NATIONAL PROPERTY OF THE P	(08 Marks)
10	a.	Write a note on DSM implementation issues.	(00 mains)
	b.	Discuss the energy saving opportunities in : i) Agricultural sector ii) Transport sector.	(08 Marks)
		ii) Hansport sector.	(

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.