C	Ĵ	Reg. No. :										
Question Paper Code: 59324												
B.E./B.Tech. DEGREE EXAMINATION, NOV 2018												
Elective												
Electrical and Electronics Engineering												
15UEE924- ENERGY AUDIT												
(Regulation 2015)												
Duration: Three Hours Maxim									um: 100 Marks			
Answer ALL Questions												
		PART- A	$(5 \times 3 = 15)$	Mar	ks)							
1.	1. Define energy audit as per energy conservation act 2001.								CO1-U			
2. Write the expression for static fan efficiency.								CO2-U				
3. List out the energy audit instruments used for power measurement and flue gas measurement.								ınd	CO3-Ana			
4.	Enume	erate the various energy conserv	ation oppo	ortuni	ties	in pu	mpin	ıg sy	/stem.	CO	4-U	
5. State input output method of boiler.								CO5-U				
		PART - B (5x 14 = 70	Mar	ks)							
6.	(a)	Explain about the difference b energy audits.	etween pre	elimi	nary	and	detail	led	CO1	-U	(14)	
			Or									
	(b)	Explain in detail about industr	ial Energy	Aud	it.				CO1	-U	(14)	
7.	(a)	Explain the Various Energy Cosystems.		n Me	asur	es in	Stear	n	CO2	-U	(14)	
	(b)	Parform a case study on E	Or Spergy Co	ncorr	vatio	n in	Stor	am	CO^{2}	_11	(1A)	
	(b)	Perform a case study on E Systems.	mergy Co	11501	allo	11 111	5108	a111	02	-0	(14)	

		Or							
	(b)	Analyze the energy performance assessment of fans.	CO3-Ana	(14)					
9.	(a)	Explain the energy conservation opportunities in air conditioning.	CO4-U	(14)					
Or									
	(b)	Explain in detail about the factors which influence the energy consumption of lighting schemes.	CO4-U	(14)					
10.	(a)	Analyze the detailed process of M&T Thermostats.	CO5-Ana	(14)					
Or									
	(b)	Examine the various Losses in Boiler.	CO5-Ana	(14)					
PART - C $(1x 15 = 15 Marks)$									
11.	(a)	List and explain about the various instruments used in energy audit.	CO1-U	(15)					
		Or							
	(b)	Explain in detail about steam traps and their application.	CO2-U	(15)					

8. (a) Analyze the energy performance assessment of water pump.

CO3-Ana (14)