Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY ME – SEMESTER II (NEW) – • EXAMINATION – SUMMER 2016

ME – SEMESTER II (NEW) – • EXAMINATION – SUMMER 2016				
Sul	bject	Code: 2723915 Date: 31/05/20	Date: 31/05/2016	
Subject Name: Energy Audit and Management				
Time:10:30 am to 01:00 pm Total Marks: 70 Instructions:			70	
1. Attempt all questions.				
	2.	Make suitable assumptions wherever necessary.		
	3.	Figures to the right indicate full marks.		
Q.1	(a)	Write short note on Efficient report writing and contents for the final report after energy Auditing.	07	
	(b)	Write a short note on instruments needed for energy audit	07	
Q.2	(a)	What are the types of lamps used in lighting system? Write down their features with typical applications.	07	
	(b)	Explain in detail SSM (Supply side Management) and (Demand side Management).	07	
		OR		
	(b)	Define following in context of Lightning. 1)Lumen	07	
		2)Lux		
		3)Installed load Efficiency4)Lamp circuit Efficiency		
		5)Color Rendering Index(CRI)		
Q.3	(a)	Discuss waste heat recovering options.	07	
Q.5	(a) (b)	Explain economic thickness of insulation.	07	
		OR		
Q.3	(a)	Discuss control of furnace draft.	07 07	
	(b)	Explain the mechanism of fluidized bed combustion.	07	
Q.4	(a) (b)	Write a short note on Energy Saving in Pumps & Pumping Systems.	07 07	
	(b)	Discuss in brief cooling tower types and performance evaluation. OR	07	
Q.4	(a)	Explain in detail the working of Thermodynamic and Thermostatic type of	07	
	(b)	steam trap? Give check list of energy conservation in refrigeration.	07	
Q.5	(a)	Classify Cogeneration systems and explain in detail with relative merits and	07	
v	(<i>a</i>)	demerits.	07	
	(b)	Write a short note on benefits of power quality analysis.	07	
05	(a)	OR Write a short note on Energy Management Programs and EMIS (Energy	07	
Q.5	(a)	Write a short note on Energy Management Programs and EMIS (Energy management Information system).	07	
	(b)	Explain performance evaluation of Air conditioner system.	07	
