GUJARAT TECHNOLOGICAL UNIVERSITY

M.E –II st SEMESTER–EXAMINATION – JULY- 2012			
Subject code: 1722104 Date: 14/0			7/2012
Subject Name: Energy Conservation and Management			
Time: 10:30 am – 13:00 pm Total Marks			rks: 70
Instructions:			
1. Attempt all questions.			
	2. Make suitable assumptions wherever necessary.		
3.	Figu	res to the right indicate full marks.	
Q.1	(a)	Discuss Energy Management Techniques.	07
	(b)	What is the trend of power development in India in future?	07
Q.2	(a)	Discuss different methods used to improve the performance of Thermal	07
X	(4)	Power Plants.	01
	(b)	Explain how power factor improvement helps to save energy.	07
		OR	
	(b)	Explain how Green House concept saves energy.	07
Q.3	(a)	Explain steps in Energy Audit.	07
	(b)	Explain Cogeneration Power Plant.	07
		OR	
Q.3	(a)	Discuss electricity saving techniques by category of end use.	07
	(b)	What is the role Energy Management?	07
Q.4	(a)	Explain with neat sketch various methods used for combustion of	07
2	(u)	pulverized coal.	07
	(b)	What are the advantages of Hydro Power Plant?	07
		OR	
Q.4	(a)	With neat sketch explain Fluidized Bed Combustion.	07
Q.4	(b)	Discuss various factors affecting thermal performance of buildings.	07
Q.5	(a)	Discuss Wind Energy – As source of Energy.	07
	(b)	Discuss Solar Energy.	07
	(~)	OR	~ -
Q.5	(a)	With neat sketch explain Biogas plant.	07
~ ••	(a) (b)	Define Work, Power and Energy. Give unit of Each.	07
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