Seat N	'o.: _		
		GUJARAT TECHNOLOGICAL UNIVERSITY	
BE- VI <sup>th</sup> SEMESTER-EXAMINATION – MAY- 2012			
Subje	Subject code: 162905 Date: 19/05/202		
<b>Subject Name: Energy Conservation &amp; Pollution Control in Textile Industry</b>			
Time: 10:30 am – 01:00 pm Total Marks: 70			
<b>Instructions:</b>			
	1.	Attempt all questions.	
		Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
Q.1		Explain in detail energy audit. Discuss in detail about energy management. What are the recommendations for efficient management of energy?	14
Q.2	(a)	1 0,	07
	<b>(b)</b>	Discuss foam sizing and solvent sizing.	07
	<b>(L</b> )	OR	07
	<b>(b)</b>	Explain high pressure squeezing techniques for sizing.	07
Q.3	(a)	Discuss major operations causing excessive water pollution.	07
Q.C	(b)	Explain how water pollution can be minimized by recovery of chemicals.	07
	` ′	OR	
Q.3	(a)	What are the causes of air pollution.	<b>07</b>
	<b>(b)</b>	Explain how air pollution can be minimized by modifications in plant designs.	07
Q.4		Show the break up of ring frame power. Discuss in detail What is spindle power with its various aspects	14

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(a) Discus design modifications to combat noise pollution in spinning and

**OR**Which are the major components consuming power in ring frame? What

are the scopes of energy conservation in ring frame?

(b) Discuss how proper humidification and energy efficient

lighting measures can lead to energy conservation.

(a) What is the scene of Indian energy?

**(b)** Explain waste heat recovery system.

loom shed.

**Q.4** 

Q.5

Q.5

14

**07** 

**07** 

**07** 

**07**