Seat No.:	Enrolment No.
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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE - SEMESTER-VI • EXAMINATION - WINTER • 2014** 

Subject Code: 162905			
Su	bject	Name: Energy Conservation and Pollution Control in Textile Industry	
	ructio		
	1. 2. 3.	Make suitable assumptions wherever necessary.	
Q.1	(a) (b)	Discuss the energy management and energy audit. Explain in brief about energy & environment.	07 07
Q.2	(a) (b)	With suitable data, explain the national energy situation in India.  In textile industry, how energy can be conserved in humidification?  OR	07 07
	<b>(b)</b>	Define – "Energy". Also give justification for need to conserve energy.	07
Q.3	(a) (b)	What is ISO 14000? How ISO 14000 can be implemented in textile industry? Discuss different parameters to conserve energy in wet processing.  OR	07 07
Q.3	(a) (b)	Write short note on – Use of solar energy as an alternative in textile mill. Explain noise pollution in a textile mill with steps to control higher noise pollution in spinning and weaving section of a mill.	07 07
Q.4	(a) (b)	Write Short note on – Waste heat recovery Systems.  Explain in detail about motor efficiency and power consumption.  OR	07 07
Q.4	(a)	Discuss in brief, in-plant modification to minimize water pollution in textile	07
	<b>(b)</b>	processing unit.  What is dust pollution and why it is higher in spinning mill? How modern equipments in spinning mill minimize this problem?	07
Q.5	(a)	Enlist good quality lighting criteria. Also mention different ways to conserve energy in lighting.	07
	<b>(b)</b>	Discuss energy conservation measures in sizing department with reference to novel techniques of sizing and development in sizing ingredients.  OR	07
Q.5	(a) (b)	Explain the causes and remedies of air pollution in textile mill.  Discuss Hazardous solid waste and its management.	07 07

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