Printed	Page	1 of 1 Sub Code: RI	E <b>EO</b> ′
Paper l	ld:	120726 Roll No:	
		В.ТЕСН.	
		(SEM VII) THEORY EXAMINATION 2019-20	
		ENERGY EFFICIENCY & CONSERVATION	
Time: 3	B Hou	rs Total Marks: 70	
Note:	<b>1.</b> Att	empt all Sections. If require any missing data; then choose suitably.	
		SECTION A	
1.	Atter	pt <i>all</i> questions in brief. $2 \times 7 = 14$	
	a.	Give the significance of Energy Conservation in current scenario.	
	b.	What do you understand by the term energy efficiency?	
	c.	What do you mean by load scheduling and load shifting?	-
	d.	What is the role of reactive power in electrical energy consumption?	
	e.	What is need of Demand Side planning?	
	f.	Give the aim of Energy Audit?	_
		What are the VAR requirements?	_
	g.	what are the vine requirements.	
		SECTION B	
2.	Atter	apt any three of the following: $7 \times 3 = 2$	1
	a.	Describe the energy efficient windows.	Ì
	b.	Explain voltage classes and nomenclature.	
	c.	Write concept and scope of demand side management	
	d.	Describe the energy audit of Electrical Systems.	<b>9</b> .
	e.	Explain the energy conservation in small scale industries.	4
	С.	Explain the chergy conservation in small scale industries.	
		SECTION C	
3.	Atter	apt any <i>one</i> part of the following: $7 \times 1 = 7$	
	(a)	What do you mean by "Energy Conservation Legislation"? Also explain the	
	( )	strategy of energy audit.	
	(b)	Explain demand side management strategy, its implementation and application	i
4.	Atter	npt any <i>one</i> part of the following: $7 \times 1 = 7$	_
	(a)	Discuss the methods of voltage and reactive power control systems. Also mention its importance in power system environments.	)
	(b)	What is the need of installing capacitor banks and inductor banks in	
		distribution systems? Explain their advantages and limitations.	
5.	Atter	apt any <i>one</i> part of the following: $7 \times 1 = 7$	
	(a)	Discuss about the following: 1. Motor efficiency testing, 2. Motor Speed	d
		Control	
_	(b)	Write a detailed note on Indian Electricity Act 1956.	
6.		npt any <i>one</i> part of the following: $7 \times 1 = 7$	_
	(a)	Explain in detail the voltage instability in power system networks.	
	(b)	Describe the HVAC and explain the voltage drop calculation.	
7.		npt any <i>one</i> part of the following: $7 \times 1 = 7$	
	(a)	Write short note on Energy efficient motors and compare it with standard motors.	ı l
	(b)	Explain the following: -1. UPS selection 2. Distribution code and Electricity Bill 2003.	