	DR. BABASAHE	CB AMBEDKAR TECHNOLOGICAL UN	Semester :VII BTEEE705B Duration: 3 Hr. the Course Outcome (CO) on t of the question. owed. n it clearly. (Level/CO) Marks 12 2 3		
		Winter Examination – 2022			
	Course: B. Tech.	Branch : Electrical Engineering	Semester :VII		
	Subject Code & Na	bject Code & Name: Energy Audit and Conservation BTEEE705B			
	Max Marks: 60	Date: 09-02-2023	Duration: 3 Hr.		
	 The level of a which the quint Use of non-p 	Students: tions are compulsory. question/expected answer as per OBE or the testion is based is mentioned in () in front of programmable scientific calculators is allow table data wherever necessary and mention it	^c the question. ed. clearly.	Marks	
Q. 1	Solve Any Two of t	the following.		12	
A)	What are conventional and non-conventional energy sources?			6	
B)	What is kyoto prot	tocol and what are its implications for de	what are its implications for developed and 6		
	developing countries	s.			
C)	What is the ozone depletion, and how does it occur?			6	
Q.2	Solve Any Two of t	the following.		12	
A)	State salient features of energy conservation Act-2001.			6	
B)				6	
C)	Explain the energy conservation & its importance.			6	
Q. 3	Solve Any Two of the following.			12	
A)	Explain the boiler efficiency by direct method?		6		
B)	What is electric power supply system ? Draw a single line diagram of a		6		
	typical a.c power su	pply scheme.			
C)	What are waste heat	t recovery boilers? Explain the need and bene	efits?	6	
Q.4	Solve Any Two of t	the following.		12	
A)	What are the technic	cal aspects of energy efficient motors?		6	
B)	Explain Demand side Management. Measures taken for Demand side management.			6	
C)	_	at are its advantages?		6	

Q. 5 Solve Any Two of the following.

A) Calculate the Net present Value of the project 1 shown in the table for 10 year. The annual discount rate is 8%.

Project 1	
30000	
Net Annual Saving (Rs.)	
6600	
6600	
6300	
6300	
6000	
6000	
5700	
5700	
5400	
5400	

- **B)** Explain Time Value of Money. Elaborate with example.
- C) Explain with Return on Investment. Elaborate with Energy audit example.

*** End ***

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