Reg. No.



%, determine which purchase is beneficial

VII SEMESTER B.TECH (ELECTRICAL & ELECTRONICS ENGINEERING) MAKEUP EXAMINATIONS, DECEMBER 2017

SUBJECT: ENERGY AUDITING [ELE 4006]

REVISED CREDIT SYSTEM

lime	e: 3 Hours	Date:	28 December 2	2017	Max. Mark	(s: 5
Instr	uctions to Candidate	es:				
	✤ Answer ALL th	e questions.				
	 Missing data m 	ay be suitably assu	ımed.			
1A.	is commercial en	ergy				
	is a financial turr		al package by Minis	stry of Power. Gov	t of India	
	in Rajasthan has					(05
	is an act of parlia	8		ower sector		(**
	National Action Plar		-			
1B.	A spherical balloon with a diameter of 5 mts is filled with natural gas. How much energy is contained in the quantity of natural gas					
	Write a note on Technical & Economic feasibility of energy conservation opportunities					
2A.	Write a note on Tec	hnical & Economic	feasibility of energ	gy conservation of	oportunities	(05
	Write a note on Tech Describe Energy Ber				-	(05 (05
2A. 2B. 3A.	Describe Energy Ber	nchmarking and lis	st out the steps in e	nergy conservatio	on benchmarking	(05
2B. 3A.	Describe Energy Ber List out some of the	nchmarking and lis Instruments and N	st out the steps in e	nergy conservation	on benchmarking	(05 (04
2B. 3A.	Describe Energy Ber	nchmarking and lis Instruments and N	st out the steps in e	nergy conservation	on benchmarking	(05
	Describe Energy Ber List out some of the Define (i) Capital Co A solution containin	nchmarking and lis Instruments and M st (ii) depreciatior g 5 % solids is mix	st out the steps in e Metering that could n (iii) Salvage value ed with 20 % solid	nergy conservation be used for data of solution and a sin	on benchmarking collection gle output of 25 %	(05 (04 (06
2B. 3A. 3B.	Describe Energy Ber List out some of the Define (i) Capital Co A solution containin is removed. If the 5	nchmarking and lis Instruments and M st (ii) depreciatior g 5 % solids is mix % solution enters	st out the steps in e Metering that could n (iii) Salvage value ed with 20 % solid	nergy conservation be used for data of solution and a sin	on benchmarking collection gle output of 25 %	(05 (04
2B. 3A. 3B. 4A.	Describe Energy Ber List out some of the Define (i) Capital Co A solution containin is removed. If the 5 there is no accumula	nchmarking and lis Instruments and M st (ii) depreciatior g 5 % solids is mix % solution enters ation	st out the steps in e Metering that could n (iii) Salvage value ed with 20 % solid at 10 Kg / sec, wha	nergy conservation be used for data of solution and a sin at are the other ra	on benchmarking collection gle output of 25 % ates assuming that	(05 (04 (06
2B. 3A. 3B. 4A.	Describe Energy Ber List out some of the Define (i) Capital Co A solution containin is removed. If the 5	nchmarking and lis Instruments and M st (ii) depreciation g 5 % solids is mix % solution enters ation e which project is t	st out the steps in e Metering that could n (iii) Salvage value ed with 20 % solid at 10 Kg / sec, what to be preferred if th	energy conservation be used for data solution and a sin at are the other ra ne discount rate is	on benchmarking collection gle output of 25 % ates assuming that	(05 (04 (06
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2B. 3A. 3B. 4A.	Describe Energy Ber List out some of the Define (i) Capital Co A solution containin is removed. If the 5 there is no accumula	nchmarking and lis Instruments and M st (ii) depreciation g 5 % solids is mix % solution enters ation e which project is t	st out the steps in e Metering that could n (iii) Salvage value ed with 20 % solid at 10 Kg / sec, what to be preferred if th	energy conservation be used for data solution and a sin at are the other ra ne discount rate is	on benchmarking collection gle output of 25 % ates assuming that	(05 (04 (06

5B. For the following motor-pump system, determine the present value of the energy loss: Fluid density = 1000 Kg / m³, Flow rate = 0.048 m³ / sec, Total Head = 60 mts, Motor input = 50 kW, Motor Efficiency = 85 %, Operating hours = 6500 hrs, System life = 10 years, Discount Rate = 10 %, Energy cost = Rs. 5 / kWh,