H-4028

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## SUBJECT CODE NO:- H- 4028 FACULTY OF SCIENCE AND TECHNOLOGY

## Final B.Tech. (E.E.) (Sem-VII) Open Elective-II Energy Planning & Conservation [Revised]

Time: Three Hours]		[Max. Marks:80]
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N.B.	Please check whether you have got the right question paper.  1) Question No.1 from section A and question no 6 from section B are compulsory  2) Solve any two from remaining questions from each section.  3) Assume suitable data, if required	STANDARY OF THE STANDARY OF TH
	Section – A	
Q.1	Solve any 5 from following  a) Define Energy conservation and Energy Efficiency. b) Recall the basis for achieving the aim of energy security for a country? c) Identify the elements of successful energy management program. d) List tworeponsibilities of Energy Manager. e) Recall the term Targeted audit f) Impact of Global variations	10
Q.2	<ul><li>a) Review method for energy pricing is done in India</li><li>b) Identify the need of integrated energy policy for organization.</li></ul>	07 08
Q.3	<ul><li>a) Outline duties of energy manager</li><li>b) Explain goal setting element for successful energy management program.</li></ul>	07 08
Q.4	<ul><li>a) What are skills and duties of energy Manager</li><li>b) Explain Force Field Analysis</li></ul>	07 08
Q.5	Explain in short ( any three)  a) Recognition and motivation b) Skills of energy manager c) Targeted audit d) Bench marking  Section B	15
Q.6	Solve any 5 from following  a) Maximum Energy efficiency b) Enlist basic measurements for energy audit c) Natural lighting d) List down any two designated customers e) Recall any two salient features of EC Act – 2001 f) Enlist instruments used in energy audit	10

## **Examination Nov/Dec 2019**

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Q.7	a) Enlist and explain types of energy audits and need of the same	07
	b) Reproduce salient features of energy conservation act 2001.	08
Q.8	a) Enlist utility systems used in the factory and briefly explain energy conservation oppoint them	ortunities 08
	b) Energy manager has arrived following data	07
	i) Ref. year energy used12 million kcal	
	ii) P.F for current year (2010)0.92	
	iii) Energy for current year 11 million kcal	
	calculate Plant energy Performance for year 2010 & comment	
Q.9	a) Explain phenomenon of Day lighting	07
	b) What are mandatory provisions of energy Conservation Act 2001.	08
Q.10	Write short notes (on any three)	15
	i) Bench marking	
	ii) ELCB	5
	iii) Flow measuring instruments	
	iv) Energy conservation principle	