

Subject Code : 13A02705

Set-1

G.Pullaiah College of Engineering and Technology ::Kurnool
B.Tech IV Year I Sem (R-13) Internal Examinations-II, Nov- 2017
Energy Auditing and Demand Side Management
(Electrical and Electronics Engineering)

Time : 90 Min

(10 -Nov-2017)

Max Marks :30

Question-1 is Compulsory; one from 2 and 3 and one from 4 and 5 to answer

S.No		Questions	Marks	Unit	CO	Co Level
		Interpret the following				
1.	A	BCR	2	III	412.3	Remember
	B	Tong tester	2	III	412.3	Remember
	C	Flexible load shape	2	IV	412.4	Remember
	D	Simple pay back period	2	V	412.5	Remember
	E	Sinking fund method	2	V	412.6	Remember
2		Describe the methods to control Light	5	III	412.3	Remember
3		Explain in words about good Lighting system design and practices	5	III	412.4	Remember
4		Explain in detail about the concept of Demand Side management and its benefits	5	IV	412.5	Remember & Understand
5	a	Explain the concept of 'Time of day Pricing'	5	V	412.5	Remember & Apply
	b	Illustrate in words about Tax and Tax credits	5	V	412.6	Understand

Subject Code : 13A02705

Set-2

G.Pullaiah College of Engineering and Technology ::Kurnool
B.Tech IV Year I Sem (R-13) Internal Examinations-II, Nov- 2017
Energy Auditing and Demand Side Management
(Electrical and Electronics Engineering)

Time : 90 Min

(10 -Nov-2017)

Max Marks :30

Question-1 is Compulsory; one from 2 and 3 and one from 4 and 5 to answer

S.No		Questions	Marks	Unit	CO	Co Level
		Interpret the following				
1.	A	Applications and errors of wattmeter	2	III	412.3	Remember
	B	Glare-VCP &VDT	2	III	412.3	Remember
	C	Demand Side Management Programs	2	IV	412.4	Remember
	D	Cash notations	2	V	412.5	Remember
	E	Sinking fund method	2	V	412.6	Remember
2		Write a short notes on a) Light energy audit and instruments used for audit b) watt meter	5	III	412.3	Remember
3		Enumerate in words about good lighting system design and practices	5	III	412.4	Remember
4		a) Define DSM and explain the benefits of DSM b) Explain in brief about the concept of Load Management	5	IV	412.5	Remember & Understand
5	a	Explain in detail about any two techniques of DSM	5	V	412.5	Remember & Apply
	b	Interpret about the Cost effectiveness test for demand side management programs	5	V	412.6	Understand

Subject Code : 13A02705

Set-3

G.Pullaiah College of Engineering and Technology ::Kurnool
B.Tech IV Year I Sem (R-13) Internal Examinations-II, Nov- 2017
Energy Auditing and Demand Side Management
(Electrical and Electronics Engineering)

Time : 90 Min

(10 -Nov-2017)

Max Marks :30

Question-1 is Compulsory; one from 2 and 3 and one from 4 and 5 to answer

S.No		Questions	Marks	Unit	CO	Co Level
		Interpret the following				
1.	A	Application of PLC	2	III	412.3	Remember
	B	Tong Tester	2	III	412.3	Remember
	C	Flexible Load Shape	2	IV	412.4	Remember
	D	Depreciation	2	V	412.5	Remember
	E	Cash notations	2	V	412.6	Remember
2	a	Explain in brief about the following a) Light energy audit b) Thermocouple c) Lux Meter	5	III	412.3	Remember
	b	Enumerate in words about good lighting system design and practices	5	III	412.4	Remember
3	a	Explain in detail about the techniques of Demand Side Management Programs	5	IV	412.4	Understand
	b	Define DSM and explain the benefits of DSM	5	IV	412.4	Remember & Understand
4	a	Enumerate in words about the pay back calculations and time value of money concept	5	IV	412.5	Remember & Understand
	b	Explain the concept of depreciation in energy economic analysis	5	V	412.5	Remember & Understand
5	a	Determine the asset value at the end of 6 years using the four methods for depreciation calculation for a natural gas central heating system for a block costs 40,000/- completely installed and ready to use. Its salvage value is Rs 4000/- at the end of its estimated service life of 10 years	5	V	412.5	Remember & Apply
	b	Discuss about the rate payer impact measure test.	5	V	412.6	Understand

Subject Code : 13A02705

Set-4

**G.Pullaiah College of Engineering and Technology ::Kurnool
B.Tech IV Year I Sem (R-13) Internal Examinations-II, Nov- 2017
Energy Auditing and Demand Side Management
(Electrical and Electronics Engineering)**

Time : 90 Min

(10 -Nov-2017)

Max Marks :30

Question-1 is Compulsory; one from 2 and 3 and one from 4 and 5 to answer

S.No		Questions	Marks	Unit	CO	Co Level
		Interpret the following				
1.	A	Applications and errors of wattmeter	2	III	412.3	Remember
	B	Glare-VCP &VDT	2	III	412.3	Remember
	C	Demand Side Management Programs	2	IV	412.4	Remember
	D	Cash notations	2	V	412.5	Remember
	E	Sinking fund method	2	V	412.6	Remember
2		Write a short notes on a) Light energy audit and instruments used for audit b) watt meter	5	III	412.3	Remember
3		Enumerate in words about good lighting system design and practices	5	III	412.4	Remember
4		a) Define DSM and explain the benefits of DSM b) Explain in brief about the concept of Load Management	5	IV	412.5	Remember & Understand
5	a	Explain in detail about any two techniques of DSM	5	V	412.5	Remember & Apply
	b	Interpret about the Cost effectiveness test for demand side management programs	5	V	412.6	Understand