The Control of the Co	the state of the s	the same of the special lands	processor of the latest the lates	and grant to a grant to the	
Reg. No.					
Mr			1-1-0-1		
AND DESCRIPTION OF THE PARTY OF	a marking make a mich	and the same of the same		and a supplication	

B.Tech. DEGREE EXAMINATION, MAY 2022

Sixth Semester

18EEO306T - ENERGY CONSERVATION

(For the candidates admitted from the academic year 2018-2019 to 2019-2020)

N	01	e	2
	1	13	
	-1	1)	

Part - A should be answered in OMR sheet within first 40 minutes and OMR sheet should be handed over to hall invigilator at the end of 40th minute.

(ii)	Par	t - B should be answered in answer b	ookle					
Time: 2	1/2 Ho	ours			Max.	Ma	rks:	75
		PART - A (25 × 1 =	= 25 1	Marks)	Marks	BL	co	PO
		Answer ALL Q						
1.	Wh	ich of the following is not a type	of pri	mary energy?	1	1	1	1
	(A)	Wind energy	(B)	Geo thermal energy				
	(C)	Electrical energy		Solar energy				
2.	Wh	ich of the following is not a green	hous	se gas?	1	1	1	1
	(A)	Nitrous oxide		Carbon-dioxide				
	(C)	Hydrogen	(A) A	Methane				
3.	Hig	h Tension (HT) consumer pay ele	ctrici	ty bill on the basis of	1	1	1	1
	(A)	kWh only						
	(C)	Both kWh and kVA	(D)	kVAR only				
4.	The	e objectives of energy managemen	nt inc	ludes	1	1	1	1
	(A)	Minimizing energy cost only	(B)	Minimizing waste of energy only				
	(C)	Minimizing environmental degradation	(D)	Minimizing cost and losses with reducing environmental degradation				
5.	Ener	rgy consumption per unit of GDP	is ca	lled as	1	-	-	
		Per captia consumption		Energy intensity				
	(C)	Energy ratio		Energy index				
6.	Tran	asformer works on the principle o	f			-	2	
		Self induction		Mutual induction			*	
	(C)	Ampere law		Coulomb law				
7.	Prim	pary reason of low power factor is			1			
	(A)	Induction motor		DC motor			-	
	(C)	Synchronous motor		Doubly excited motor				
8.	India	an electrical energy sector source.	r is	predominantly driven by	1	1	2	1
	(A)		(B)	Natural gas				
	(C)	Coal		Nuclear				
Page I of 4			(1)	Trucical	272.4		1880	

9.	Which is the most recommended energy audit? (A) Walk through (B) Mini energy audit (C) Maxi energy audit (D) Detailed energy audit	1	1		1
10.	Which audit instrument is used to measure the illumination level? (A) Harmonic analyser (B) Digital Multimeter (C) Power analyzer (D) Luxmeter	1	1	2	1
11.	During energy audit a tachometer is used to measure (A) Frequency (B) Pressure (C) Revolution per minute (D) Pressure difference	1	1	3	1
12.	Energy policy is designed for (A) Energy security (B) Low cost energy generation (C) Low cost energy transmission (D) Low cost energy distribution	1	1	3	1
13.	ESCOS stands for (A) Energy service companies (B) Energy security and conservation of sources (C) Enhanced security and (D) Enhanced security and conservation of sources	1	1	3	1
14.	In the analysis using simple payback method, the result is obtained in the (A) Initial cost (B) Time period	1	1	3	1
	The identification of energy consumption level which is desirable as a management goal to work towards energy conservation is called (A) Energy monitoring (B) Energy audit (C) Energy targeting (D) Yearly benefits	1	1	4	1
16.	The annual return from the project as a percentage of capital cost is called (A) Simple payback (B) Net present value (D) Internal rate of return	1	1	4	1
17.	SDAD stands for (A) State development agencies (B) Sustainable development (C) State developer agent (B) Sustainable agencies	1	1	4	1
18.	BEE stand for (A) Bureau of Energy (B) Bureau of Enhanced Efficiency	1	1	4	1
19.	PDCA means (A) Plan-Do-Check A direct	1	1	4	1
	(C) Plan-Do-cooperate-Adjust (B) Plan-Do-Check-Admire (D) Perform-Do-Check-Adjust	1			

20.	How (A) (C)	many SADS are operating in Inc 16 36	dia? (B) (D)		1	1	4	1
21.	Pow (A) (C)		(B) (D)		1	1	5	1
22.	(A)	Cumulative Sum Customer Utility Module		Cumulative sustainable module Customer Utilization Module	1	1	5	1
23.	(A)	ch is not the component of monit Recording Sampling	(B)	and targeting system? Analysis Allocating	1	1	5	1
24.		ch is not the commercial energy s Electricity Oil	(B)	e in recent times? Coal Firewood	1	1	5	1
25.	(A)	rgy security is of prime important Economic policy of a country Social policy of a country	(B)	Energy policy of a country Environmental policy of a country	1	1	5	1
		$PART - B (5 \times 10 = Answer ALL Q)$	= 50 N	Marks)	Marks	BL	со	PO
6. a.	Exp	PART – B (5 × 10 = Answer ALL Quality various environmental aspect	uestic	ons	Marks	BL 1	co 1	PO 1
b.	Expl	Answer ALL Quality various environmental aspect (OR) lain the importance of non-coent context.	ts ass	ociated with energy utilization. tional energy resources in the	10	1	1	1
b.	Expl press Wha	Answer ALL Quality various environmental aspect (OR) lain the importance of non-coent context.	ts ass	ociated with energy utilization.	10	1	1	1
b. 7. a. b.	Explores What attrib	Answer ALL Quality various environmental aspect (OR) lain the importance of non-coent context. It are various types of transfortes. (OR) ain the operating principle of tion of transformer.	ts ass	ociated with energy utilization. tional energy resources in the rs? Classify based on various former. Also derive the E.M.F	10	1 1 1	1 2 2	1 1 1
b. 7. a. b.	Explores What attrib	Answer ALL Quality various environmental aspect (OR) lain the importance of non-coent context. It are various types of transfortes. (OR) ain the operating principle of tion of transformer.	ts ass	ociated with energy utilization. tional energy resources in the rs? Classify based on various former. Also derive the E.M.F.	10	1 1 1	1 2	1

27MA618EEO306T

29. a.	Give a overview of renewable energy policy and the five year plan programme with reference to Indian context.	10	1	4	1
b.	(OR) Explain in detail the key changes in India's energy policies in the context of energy efficiency and environmental concerns.	10	1	4	1
30. a.	Explain the following terms (i) Payback period (ii) Return on investment (iii) Net present value (iv) Internal rate of return	2.5 2.5 2.5 2.5	1	5	1
ъ.	(OR) Explain the following (i) Energy management information system (ii) Energy performance contracts (iii) Energy monitoring and targeting (iv) Data information analysis	2.5 2.5 2.5 2.5	1	5	1

* * * * *

27MA618EE0306T