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PARUL UNIVERSITY FACULTY OF ENGINEERING & TECHNOLOGY Diploma Envincering Mid semester Examination

Semester: 6TH T. Status Difference of the second se	Diploma Engineeri	ng, who seme	Data:23/01/2023	
Subject Code:3507357 Total Marks: 40 Instructions: 1. Attempt all questions. 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. 4. English version is considered to be Authentic. Q1 Answer any six out of Ten. (2 Marks Each) (12) (1) Define "Energy Conservation." (2) (2) Give concept of "Energy Audit." (3) (3) Write questionnaires for energy audit projects. (4) Give full form of 1) BEE 2) GEDA. (4) Give full form of 1) BEE 2) GEDA. (5) State different energy efficient light sources. (6) Define "Payback period." (7) State benefits of using star rated equipment's. (10) Give advantages of APFC (Automatic Power Factor Correction Panel). (2) (2) (a) Explain primary and secondary energy sources. (03) (a) Give energy scenario of India. (03) (b) Give roles and major promotional function/responsibilities of BEE. (03) (b) Give roles and perspective of GEDA. (04) (c) Write short note on "Energy Efficient Motor." (04) (d) Write short note on "Detailed energy audit". (04) (4) Write short note on "Detailed energy audit". (03) (b) Give periodic maintenance checks f	Semester: 6TH		Time: 7 50am to 0 20am	
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(d) Write short note on "Variable Frequency Drive". (04)	(c) Write short note on "Automatic star delta co	nverter."		(04)
	(d) Write short note on "Variable Frequency Dr	ive".		(04)

	<u>ગુજરાતી</u>	
પ્રશ્ન.૧	દસમાંથી કોઈપણ છ જવાબ આપો .(દરેક માટે રગુણ), 1 ઊર્જા સંરક્ષણ "વ્યાખ્યાયિત કરો. 2 એનર્જી ઓડિટ "નો ખ્યાલ આપો.)3 (એનર્જી ઓડિટ પ્રોજેકટ્સ માટે પ્રશ્નાવલિ લખો. 4 (1 (BEE 2(GEDAનું સંપૂર્ણ સ્વરુપ આપો. 5 (વિવિધ ઉર્જા કાર્યક્ષમ પ્રકાશ સ્રોતો જણાવો. 6" (પેબેક અવધિ "વ્યાખ્યાયિત કરો. 7 (સ્ટાર રેટેડ સાધનોનો ઉપયોગ કરવાના રાજ્ય લાભો. 8 (રાજ્ય પ્રકારની ઊર્જા ઓડિટ પદ્ધતિ. 9વીજળીમાં ઉર્જા બયતના નવીન ઉપાયો આપો.	(૧૨)
પ્રશ્ન.ર	10 (APFC)ઓટોમેટિક પાવર ફેક્ટર કરેક્શન પેનલ (ના ફાયદા આપો. એ) પ્રાથમિક અને ગૌણ ઉર્જા સ્રોતો સમજાવો આશ્રવા	(٤٥)
	અવવા એ) ભારતનો ઉર્જાનો માહોલ આપો	(٥٥)
	બી) BEE ની ભૂમિકાઓ અને મુખ્ય પ્રમોશનલ ફંક્શન/જવાબદારીઓ આપો.	(60)
	અથવા	
	બી) GEDA ની ભૂમિકાઓ અને પરિપ્રેક્ષ્ય આપો. સી) "એનર્જી સ્ટાર કોન્સેપ્ટ" પર ટૂંકી નોંધ લખો. અશવા	(03) (08)
	સી) સોફટ સ્ટાર્ટર" પર ટૂંકી નોંધ લખો.	(ه۶)
	ડી) "વિગતવાર ઉર્જા ઓડિટ" પર ટૂંકી નોંધ લખો.	(۵۵)
પ્રશ્ન.ર	3 એ) "ઊર્જા કાર્યક્ષમ મોટર" પર ટૂંકી નોંધ લખો.	(60)
	અથવા એ) "ઊર્જા કાર્યક્ષમ ટ્રાન્સફોર્મર" પર ટૂંકી નોંધ લખો. બી) "ડ્રાય ટાઇપ ટ્રાન્સફોર્મર" પર ટૂંકી નોંધ લખો.	(03) (03)
	અથવા બી) ટ્રાન્સફોર્મર માટે સમયાંતરે જાળવણી તપાસો આપો. સી) ઊર્જા ઓડિટ માટે ઉપયોગમાં લેવાતા રાજ્ય સાધનો અને કોઈપણ યાર સમજાવો. અથવા	(०३) (७४)
	સી) "ઓટોમેટિક સ્ટાર ડેલ્ટા કન્વર્ટર" પર ટૂંકી નોંધ લખો. ડી) "વેરિયેબલ ફ્રીક્વન્સી ડ્રાઇવ" પર ટૂંકી નોંધ લખો.	(08) (08)