Roll No.

(e) have short cores or, this one;

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APR-MAY

B. E. (Eighth Semester) Examination, 2020

(Old Scheme)

mornika stag and (EredgitiBranch) in sale years (a) ...

INDUSTRIAL & POWER ELECTRONICS

which a Time Atlowed ! Three hours as a wife (d)

Maximum Marks: 80

secure of the Minimum Piess Marks: 28 ! 21 St 4 (5)

Note: All questions are compulsory. Part (a) is compulsory and solve any two from parts (b), (c) and (d).

Define to reduce of triggining SCR है। तक

(ii) SCR's operation - eries & parallel operation

1. (a) What is the Breakdown mechanism of Zener diode. 2

(b) Explain three terminal voltage regulator using LM-

53401C. & popper & popper & sally (s)

(b) Explain the working principle of three phase

	(c)	Explain basic transistorized shunt voltage Regulator	
		and how its performance can be improved?	7
	(d)	Write short notes on : (any one)	7
		(i) SMPS	
		(ii) Dual Tracking Regulator	
		Unit-II	
2.	(a)	Justify the statement "Higher is the gate current,	
		lower is the fwd breakover voltage".	2
	(b)	Give the comparison between any three thyristor	
		family members.	7
	(c)	What is the basic difference between load commu-	
		tation and external pulse commutation?	7
	(d)	Write short notes on:	
		(i) Different methods of triggering SCR circuits	4
		(ii) SCR's operation - series & parallel operation	3
		 Visus sector breaks to very mechanism of Zeneratio 	
		Unit-III	
		The state of the statement website regulation using I	
3.	(a)	What do you mean by Chopper & write used.	2

		converter.	7
	(c)	Explain the single mid-point cycloconverter with the help of circuit.	7
	(d)	Describe McMurray bridge inverter in brief.	7
		Unit-IV	
•	(a)	Define skin effect in Induction Heating.	2
	(b)	Explain different types of Resistance Welding.	7
	(c)	Write the limitations, theory and effect of variation of supply voltage & frequency of "dielectric heating"	7
		with two application.	7
	(d)	For the high frequency induction heating derive the total power entering the metal per sq. cm. of the	
		surface given by:	7
		$P_{t} = \frac{8\pi H_{0} \sqrt{10^{-9} \mu_{r} f}}{\sqrt{\sigma}}$	

wang egan in physic Unit-Vicense add made daylo

5.	(a) Explain origin of noise.	2
	(b) Briefly with the help of B.D. of operation of ONLINE UPS and OFFLINE UPS.	7
	(c) What are the different types of noise? Explain any three in brief.	7
	(d) Write short notes on : (any one)	7
	(i) Servo Motor of servo system (ii) Buck-Boost control voltage stabilizer	
	to. Write the lamitations, those, and attached warming	
	(d) I'm the high fixquency industron bearing derive the	
	total power entering the metal per sq. cm (of the	