Roll No. of Questions :8] Roll No. of Printed Pages :2 Roll No. of Printed Pages :2		[Total No. of Printed Pages :2		RGPVONLINE.COM		
		Roll No	5.	Ex	plain in brief with diagrams:	
			a)	R.F. Generators.	:	
			b)	Laser power supply.		
			c)	High frequency sources for fluorescent lamps.	4	
	Forced Com	mutation circuits				
Time : Three Hours Maximum Marks : 70			6.	a)	Explain the induction heating with diagrams and write its applications.	
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Note: i) Attempt any five questions. ii) All questions carry equal marks.				b)	Give the four quadrant chopper circuit diagram wi application to D.C. drive.	ith its
1.	Explain the various PWN the single phase inverter expression of voltage.	I techniques to control the output of with circuit diagram and write the	7.	a)	Explain the with block diagram the power supplied SRM drive. What do you mean by safe operating an	
2.	Describe the power circuit of a three phase bridge inverter using six thyristor and six diodes with 120° mode of operation and voltage waveforms. Also write phase and line voltage expressions.			b)	Discuss the control circuits used for the SRM with diagrams.	drivç 7
			8.	W_{Γ}	ite a short notes on any two of the following:	14
		Caralyana with		a)	Commutation techniques for the inverters.	
3.	 Explain the phase sequence control of voltage diagram. 			b)	Classification of chopper circuits.	
	b) Discuss the reductio	n of Harmonics in the inverter output	•	c)	Induction welding and melting.	
	voltage by stepped v diagrams.	vave inverter method with the help of 7		d)	Derive ratings and data sheets.	

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4. Write a short notes on the following: a) Switch mode power supplies.

c) Ferro resonants.

b) Resonant mode of operation of power suppliers.