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	Reg. No. :
	The Control of the Co
	Question Paper Code: 20522
	B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2022.
	Sixth Semester
	Electrical and Electronics Engineering
	EE 8601 – SOLID STATE DRIVES
	(Regulations 2017)
Tin	ne : Three hours Maximum : 100 marks
	Answer ALL questions.
	PART A — $(10 \times 2 = 20 \text{ marks})$
1.	Draw the block diagram of electric drive.
2.	Mention the different factors for the selection of electric drives?
3.	What are the advantages in operating choppers at high frequency?
4.	A DC motor has an armature current of 110 A at 480 V. The armature
	resistance is 0.2 ohms. The motor has 6 poles and armature has a lap winding with 864 conductors. The flux per pole is 0.05 Wb. Find speed and torque.
E	and the second of the second o
5.	Draw the complete speed-torque curve of an induction machine.
6.	Compare static kramer and static scherbius drive system.
7.	In variable frequency control of synchronous motor, V/F ratio is maintained constant up to base speed, why?
8.	What are the modes of speed control of a synchronous motor?
9.	What are the advantages of using PI controller in closed loop control of DC drive?
10.	What is field weakening mode control?

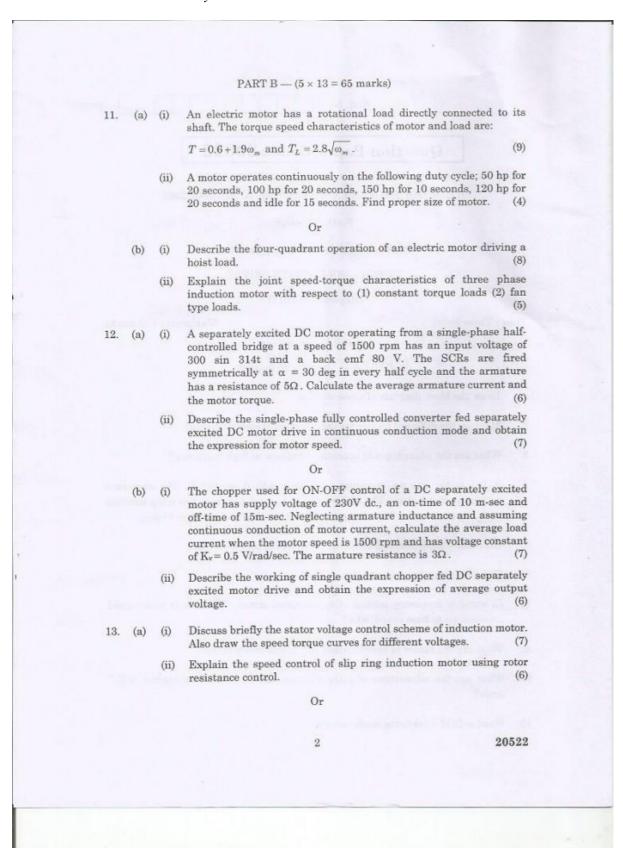
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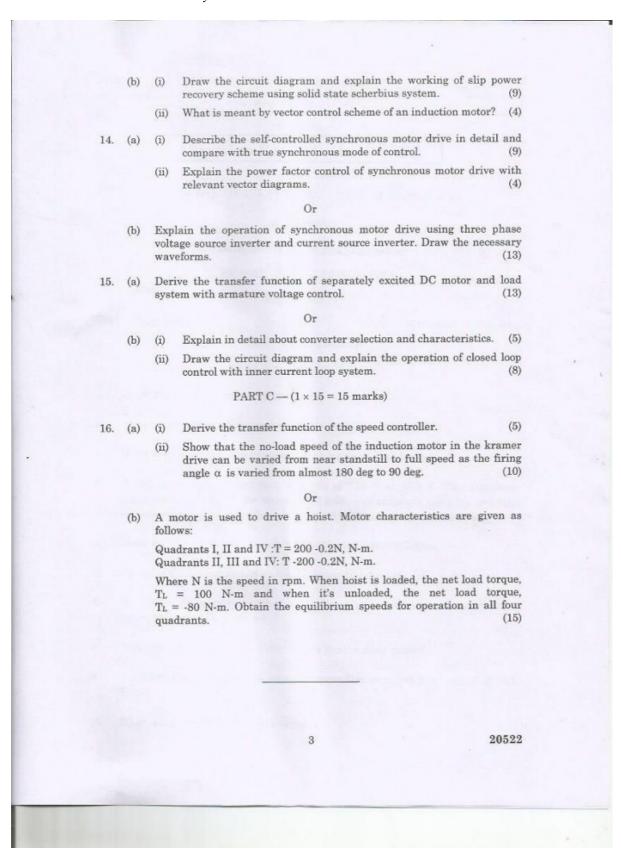
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