Reg. No.:						
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Question Paper Code:U2502

M.E. DEGREE EXAMINATION, APRIL 2024

Second Semester

Power Electronics and Drives

21PPE202-EMBEDDED CONTROL OF POWER ELECTRONIC AND DRIVE SYSTEMS

(Regulations 2021)

		(Regulations 2021)						
Du	ration	n: Three hours	Maximum: 100 Marks					
		Answer ALL Questions						
PART - A (5 x $20 = 100 \text{ Marks}$)								
1.	(a)	Explain about the components of C2XX DSP core in detail Or		CO1-U	(20)			
	(b)	Explain the various memory addressing modes of TMS320LF DSP processor.	2407	CO1-U	(20)			
2.	(a)	Explain in detail about Initializing and Servicing Interrup Software	ots in	CO1-U	(20)			
		Or						
	(b)	(i) Explain about Pin Multiplexing (MUX) and General Put I/O.	rpose	CO1-U	(20)			
		(ii) Explain briefly about the interrupt concepts						
3.	(a)	Draw and Explain the Quadrature Enclosed Pulse (QEP) Circu Or	uitry	CO1-U	(20)			
	(b)	Draw the configuration diagram and explain about the GP time	er	CO1-U	(20)			
4.	(a)	Explain in detail about Programmable Interconnect Point (PIP Or)	CO1-U	(20)			
	(b)	Compare CPLD Vs FPGA		CO1-U	(20)			
5.	(a)	With neat sketch explain in detail about the PWM inverter Or		CO1-U	(20)			
	(b)	With neat sketch explain in detail about DSP controller for DC Motor drive	r	CO1-U	(20)			