1.	(a)	Suggest various techniques used for inter process communication in an embedded system with relevant examples. Also, explain strategies used for synchronization between processes.	15
	(b)	With the help of a neat diagram, explain the different states a task can be in and the transitions between them.	5
2.	(a)	Explain the various operating modes of the ARMY processor.	10
	(b)	What is the Shard Data Problem? Explain various techniques to overcome it. (With relevant examples).	10
3.	(a)	Explain the interface of Alphanumeric LCD with any microcontroller of your choice. (Draw neat diagram)	7
	(c)	Write a detailed note on the CAN Bus explaining its features and protocol. Differentiate between CISC and RISC processors.	7 6
4.	(a)	What is interrupt latency in Embedded systems? Suggest methods to reduce latency.	10
	(b)	Explain what is the Linear sequential model in Embedded software development.	10
5.	(a)	Explain the Register set of the MSPHZO RISC controller (working Registers, SFRs, status Register etc.)	10
	(b)	Write a detailed note on the THUMB mode of operation of the ARMY processor.	10
6.	(a)	Explain Bounded and unbanded priority Inversion problem. Suggest methods to overcome / minimise it.	10
	(b)	Explain the various program modelling techniques used in Embedded system design.	10
7.	(a		20
	(b	■ I I CANADA CARANTE M. PORTO TERRATURA DA MATORIA MA	
	(d	PART OF TAXABLE CONTROL OF TAXAB	