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## Sixth Semester B.E. Degree Examination, July/August 2021 **Embedded Systems**

т:	a. 2	Max. Ma	arks:100		
Time: 3 hrs.  Note: Answer any FIVE full questions.					
1	a.	Compare the characteristics of different memories used in embedded system.	(08 Marks) (06 Marks)		
		T 1: 11 integral of 60UC11 and 68HC08			
	c.	Explain the registers of obtree 1 and obtree 6.  Explain different addressing modes of 68HC11 micro controller, with an example	(06 Marks)		
			,		
•	2 a. With a neat block diagram, explain the architecture of MC 68HC11 microcontroller.				
2	a.				
	b.	Explain different operating modes of 68HC11 and differentiate single chip	mode and		
	0.	and add mode	(00 Marks)		
	c.	with a peat block diagram explain the SOC for cell phone.			
			(00 Marks)		
		The state of the s	(08 Marks)		
3	a.	Explain briefly various issues for selection of DAC.	(06 Marks)		
	b.	Explain the working of 8-bit Ramp ADC. With reference to a data a acquisition system explain:			
	c.	i) Resolution			
		ii) Precision			
		iii) Reproducibility.	(06 Marks)		
			(10 3/11)		
4	a.	Discuss on the porting issues of operating system in an embedded system.	(10 Marks) (10 Marks)		
	b.	Explain the performance modeling in embedded system design.	(10 Marks)		
			(10 Marks)		
5	a.	Define different data structures in C and when they are used.			
	b.	Explain with the help of its pseudocode the Round–Robin architecture with inte	(10 Marks)		
		discuss the draw backs of this architecture.			
_		Discuss about the problems associated with use of semaphores.	(10 Marks)		
6	a.	- co di di la la materiatica of various software architecture.	(10 Marks)		
	υ.				
7	a.	a. Design an interface circuit to connect 8K × 8-bit RAM to 68HC11 microcontroller selection.			
,	,	- 11 C - 2000II to 2 LEFTH Draw read and write Hilling ulagiani.	( I was I was )		
	b.	and the isolated H-bridge lised to drive the isolated H-bridge lised to drive the in	otor in boui		
		directions.	(08 Marks)		
		1: 1 - 1 I/O computer architecture	(08 Marks)		
8	a.	Differentiate memory mapped I/O and isolated I/O computer architecture.	(06 Marks)		
	b.	Illustrate the concept of pull-up and pull down key interface.	,		
	0.	With reference to serial communication explain:			

- c. With reference to serial communication explain:
  i) Full duplex

  - ii) Half duplex
  - iii) Simplex communication.

(06 Marks)