M.C.A. - III (with Credits)-Regular-Semester 2012 Sem V **5MCA51 - Paper-V - Elective- I : Embedded System**

	Pages: ne:Thr		GUG/S/18/3393 Max. Marks : 80	
	Note	 All question carry equal mark and necessary. Draw neat and clean diagram wherever necessary. Avoid vague answer and write Answer relevant and specific to question only. 		
1.		Either		
	a)	Discuss the Recent trends in the embedded system design.	8	
	b)	Draw and explain the Architecture of ES Design.	8	
	a)	OR What is mean by Embadded system? Give any three example of Embadded Application	8	
	c) d)	What is mean by Embedded system? Give any three example of Embedded Application. What are the design issue of Embedded software? Explain.	8	
	u)	what are the design issue of Embedded software: Explain.	o	
2.		Either		
	a)	Draw and explain RISK microcontroller Architecture.	8	
	b)	Discuss stack operation with example.	8	
	c)	OR Write about pipelining in detail.	8	
	d)	Briefly explain processor and memory organization.	8	
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3.		Either		
	a)	What is Real time clock? Explain.	8	
	b)	Explain	8	
		i) I2C bus ii) CAN Bus OR		
	c)	Write about IRDA Data link.	8	
	d)	Enlist the RPC function. Explain any four RPC function in detail.	8	
4.	,	Either	0	
	a)	What is DSP? Explain in detail.	8	
	b)	Discuss in detail the concept of smart home. OR	8	
	c)	Give the application of RTOS. and explain any two of them.	8	
	d)	Briefly explain context switching.	8	
5.		Attempt all the question.		
		a) What are the skill required to develop Embedded Application.	4	
		b) Write a short note on ARM.	4	
		c) Write a note on Synchronization.	4	
		d) What is process and thread?	4	
