Q.P. Code:16EC5502													F	<b>R16</b>
Reg. I	No.													
SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS) M.Tech I Year I Semester Regular & Supplementary Examinations February 2018 EMBEDDED SYSTEM CONCEPTS (Common to ES, DECS & VLSI)														
Time: 3 hours Max. Marks:														s:60
				(Ans	wer a	ll Five	Units	s <b>5 X</b>	12 =6	6 Mar	rks)			
							UNI	[ <b>T-I</b>						
1	a.	<ul> <li>Explain the need for software in embedded system.</li> <li>Discuss about the factors to be considered for selection of processor in embedded system.</li> <li>OR</li> </ul>												
	b.													
2	a.	Explai	n the	technie	ques u	ised fo	or sele	ction of	of mer	nory i	n emb	edded syst	ems?	7M
	b.	Explain the input and output devices used in embedded systems.												
3	a.	Explain the selection in the embedded systems.											7M	
	b.	Discuss about the round robin architecture. 5 OR												
4	a.	Illustrate the debugging technique in the embedded systems.7												7M
	b.	b. Explain the concept of context switching in multiple interrupt mechanism. UNIT-III												
5	a.	Explain the operation of semaphore in detail.												
	b.	Explain message queue with an example. OR												
6	а. ь	What	is mea	int by l	kernel	? Exp	lain th	ie kerr	el arc	hitectu	ire in	detail.		5M
	D.	Explain in detail about the interrupt service routine.												
7	a.	Compare von- Neumann and Harvard architecture.												7M
	b.	write about the preliminaries in detail. 5. OR												
8	a.	Write a short note on inter process communication in embedded programming.												
	b.	Explain any six instruction sets with an example of ARM processor. UNIT-V											5M	
9	a.	What are the design methodologies? Explain in detail about design flow techniques.											W	7M
	b. Explain the need for project management in embedded system and write advantages.												te its	5M
			-				0	R						
10	a.	Mention the development phases and draw the development diagram to design set top boxes.												
	D.	telephone box. *** END ***											5M	
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