	Q.P. Code: 20EC4101	R20	
	Reg. No:		
	SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUT1	UR	
	(AUTONOMOUS)		
	M.Tech I Year I Semester Regular Examinations July-2021		
	EMBEDDED SYSTEM DESIGN (VLSI)		
		Max. Mark	s. 60
		Max. Mark	3.00
	(Answer all Five Units $5 \times 12 = 60$ Marks) UNIT-I		
1	a What do you mean by system-on-chip (SOC)?	L1	4 M
Ţ.	b Explain briefly about the need for software in embedded systems.	L1 L2	4M
	c Discuss the factors to be considered for selection of processor in embedded system.	L6	4M
2	OR a Explain about the details of other hardware units available in embedded system.	L2	6M
2	b Illustrate with example the techniques used for memory devices.	L2 L2	6M
	UNIT-II		
3	a Explain the concept of IO addresses of ports and devices in real time world interfacing	g. L2	6M -
	b Explain selection of processor in embedded systems.	L2	6M
	OR		
4	a Explain ARM processor.	L2	4M
	b Explain about networked embedded systems.	L2	8M
_	UNIT-III		
5	 a Explain loader, interpreter and Cross compiler. b Define loaned. What are the different functions handled by a compared sympose loaned? 	L1	6M
	b Define kernel. What are the different functions handled by a general purpose kernel? OR	L1	6M
6	a Explain development process and hardware and software.	L2	6M
	b Explain about source code engineering tool.	L2	6M
	UNIT-IV		
7	a Discuss about the special features of SHARC processor as compared with AI	RM L6	6M
	processor.		
	b Write a short note on processor and memory organization. OR	L1	6M
8	a Explain the operation of BL instruction. Also mention the state of AI	RM	
Ū	registers before and after its operation.	L2	6M
	b Explain the instruction set simulator.	L2	6M
	UNIT-V		
9	a Write in detail about telephone PBX	L2	6M
	b Explain ink jet printer.	L2	6M
10	OR a Explain advantages & disadvantages of GPRS.	L2	6M
10	b Explain how personal digital assistants is making our life easier.	L2 L2	6M
	S Explain now personal digital assistants is making our me cusici.		

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