Reg. No:

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR. (AUTONOMOUS)

B.Tech II Year II Semester Supplementary Examinations July-2022

COMPUTER ORGANIZATION

(Common to CSE & CSIT)

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Time: 3 hours		Marks	: 60	
(Answer all Five Units $5 \times 12 = 60$ Marks)				
	UNIT-I			
1	a Write in detail about Data Transfer Instructions	L2	5M	
	b Write in detail about Program Control Instructions	L2	7M	
	OR			
2	a Explain in detail about Instruction Cycle with neat sketch	L2	6M	
	b Write about Memory-Reference-Instruction	L2	6M	
	UNIT-II			
3	Draw the H/W Flowchart and H/W Algorithm for Add/Sub of SMR with an example.	L2	12M	
	OR			
4	Show the step by step signed-operand multiplication process using Booth algorithm	L3	12M	
	when (-9) and (-13) are multiplied. Assume 5-bit registers to hold signed numbers and			
	(-9) to be the multiplicand.			
UNIT-III				
5	a Show that the block diagram of the hardware that implements the following register	L3	6M	
	transfer statement P: R2←R1.			
	b Explain about the way of constructing a 4 line common bus system using	L2	6M	
	multiplexers with a neat diagram.			
	OR			
6	Explain in details about all three types of Shift Register Operations.	L2	12M	
	UNIT-IV			
7	a Explain about Memory Hierarchy.	L2	7M	
	b Explain about Memory Management Requirements.	L2	5M	
	OR			
8	a List out some differences between RAM & ROM.	L2	6M	
	b List out some differences between SRAM & DRAM.	L2	6M	
UNIT-V				
9	a Explain about Parallel Processing and its Types.	L2	7M	
	b Explain the concept of Pipelining with clear example with neat sketch.	L2	5M	
	OR			
10	Explain about Inter Process Communication & Synchronization in detail.	L2	12M	

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