Q.P. (Q.P. Code: 16EC408													6		
Reg.	No	: []			
	SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS) B.Tech II Year II Semester Regular & Supplementary Examinations May 2019 COMPUTER ORGANIZAION & ARCHITECTURE (Electronics and Communication Engineering)															
Time:	3 ho	urs						Five I	unicatio Units 5 J NIT- 3	x 12				ax. Ma	rks: 60	
1	bl cJ	 a Differentiate high level and low level languages. b Design an 8x4 memory subsystem constructed from two 8x2 ROM chips? c Justify importance of backward compatibility in processor design with practical examples. 														
2	1 b 1	angu Elabo	ages. rate h	ow C	PU is	conco	rdant			• •				oly leve explain		7M 5M
3	a V	Write	abou	t inter	rupt a	volvec and its expla	types'	?	NIT-I involv		fetch a	nd deo	code p	hases	using	6M 6M
4	a l	register transfer instructions. OR Explain in detail about booth multiplication algorithm with an example														
5	a I	What is an instruction cycle and write the phases of instruction cycle. UNIT-III Differentiate Hardwired and Micro programmed control unit. Is it possible to have a														4M 4M
	b l	hardwired control associated with a control memory? Design and implement 4-bit arithmetic unit which performs ADD, ADD with carry, SUB, Sub with borrow, increment and decrement operations. OR														
6	b I	Implement bus line for an 8-bit register using three state-buffers. Explain about address sequencing in control memory with neat diagrams. UNIT-IV														6M 6M
7		ssify mple		escrit	be the	possit	ole mo	des of	data t	ransfe	r to an	id from	n perij	pherals	s with	12M
8	t	he pr	oblen	n?		-			od and	-					od solves	6M
						• •		alon <u>g</u> v	ation b with its J NIT-V	s mem		-		nd men ping.	nory	6M
9	b I	Classify organization of computers using Flynn's criteria. Explain in detail about crossbar switching, multistage switching network and hypercube system.														4M 8M
10	b /	A nor a six-:	n-pipe	line sy ent pip	ystem	takes	50ns t	to pro		task. T	The same	ne tas		-	cessed in pipeline	n 4M

*** END ***