No. o	f CC): 06] Seat No:		[Total No. o	f Pages, 021
(.	An A	G. H. Raisoni College of Enginutonomous Institution Affiliate S. Y. B. Tech (Com ESE Winter -20 Computer Architecture and	ed to Savitribai /IT/E&TC) (Te)20 (2016 Patte	anagement, I Phule Pune, U erm-III)	
ime:-	- 3 H	[ours]			ax. Marks 60]
RSE O	UTCO	OMES:			
2 3 4	. To . To . To . To . To . To	introduce basic fundamental units of perform arithmetic operations using develop skills to understand control to build concepts of memory system. study communication of I/O devices escribe working of parallel systems.	various algorithms		
All qu Neat o Figur Assur	estion diagra es to t ne sui	ne candidates: as compulsory. ams must be drawn wherever necessal the right indicate full marks. itable data, if necessary. cuctions, if any	ry.		
01	a)	Analyze the instruction execution cyc	le with diagram		[4]
	b)	Elaborate the detail structure of IAS (machine)	computer (Von Ne	umann	[8]
O2	a)	Draw flowchart for restoring division following numbers using restoring div Dividend=(1100) ₂	operation. Perform vision vivisor=(1-1) ₂	n division of	[6]
	b)	Multiply 110101and 011011 using Bo	ooth's bit pair reco	ding method	[5]
	c)	Determine the performance of micro-	programmed contro	ol unit over	[5]
03	a)	hardwired control unit Write control sequence for execution single bus organization	of instruction Add	(R3), R1 using	[6]
		OR	agram		[6]
	b)	Elaborate pipeline processing with di	agran		[0]

	b) a)	0 5	a)
*****	State difference between RISC and CISC Analyze the necessity of superscalar processor over scalar processor.	Demonstrate I/O techniques How interrupt generated? What is necessity of it?	Using input output gating for the register in single bus organization, explain the operation of 1) Fetching a word from memory 2) Storing a word in memory
	[6] [4]	4	8