Ro	ll No		Total Puges: 3	
			8401	
		BT-4/A	1-12	
	, 🦫	COMPUTER ARC		
		Paper-CS	E-202E	
Te	no All	owed: 3 Hours)	[Maximum Marks: 100	
No	te :	Attempt five questions question from each Uni	in all, selecting at least one	
		LUNCO	- 1	
1,	(a)	Discuss the multilevel	view of a Computer system.	٠
		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	10	
	(b)	Compare the character	ristics of SIMD and MIMD	
		erchitectures.	10	
2.	(u)	Differentiate among dire	et, indirect and register indirect	
		addressing modes.	10	
	(b)		tat ? Discuss different types of	. 4
8401/K/297/8,700 P.		.P. T. O.		

		UNTT-II	
3.	(a)	Explain Stack-based architecture of a CPU with th	e
		help of a diagram.	0
•	(b)	List registers of a non-pipelined CPU. Explain the purpos	e
		of each register.	0
4.	(a)	What is Hardwired CU? Explain any one method to	o
		design it.	Û
	(b)	Discuss the relative advantages and disadvantages of	f
		Hard-wired and micro programmed CUs.	0
		UNIT-III	
5.	(a)	What is Memory hierarchy? Why do we need it	?
		I	0
	(b)	What is RAM? Explain 2D organization of RAM,	
			0
6 .	(a)	What is Cache? Discuss associative mapped cach	2
	,	organization. I	0
	(b)	What is Virtual Memory ? Explain different pag	e
		replacement policies.	0

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UNIT-IV

7.	(a)	What is Processor-level Parallelism? Compare and contras a multiprocessor and multicomputer system.	
			10
	(b)		
		State Amdahi's law.	10
8.	Explain the following with respect to 80×86 processors:		
	(a)	Instruction cycle.	10
	(b)	Micro instruction formats.	l0