Tribhuvan University

Faculty of Humanities & Social Sciences OFFICE OF THE DEAN 2018

Bachelor in Computer Applications Course Title: Microprocessor and Computer Architectu Code No: CACS 155 Semester: II		puter Architecture Full Marks: 60 Pass Marks: 24 Time: 3 hours	
Cen	itre:	Symbol No:	
Can	didates are required to answer the	e questions in their own words as far as possible.	
		Group - A	
Atte	empt all the questions.	$\boxed{10 \times 1 = 10}$	
Circ	ele (O) the correct answer.		
1.	How many number of pins are th	ere in 8085 Microprocessor?	
	a) 16	b) 20	
	c) 32	d) 40	
2.	Which one of the following inter-		
	a) RST7.5	b) TRAP	
_	c) RST6.5	d) RST5.5	
3.	How many bytes make a word of		
	a) One Byte	b) Two Bytes	
	c) Three Bytes	d) Four Bytes	
		has set or reset value on the basis of even or odd number	r
	of 1's in result?	1) C	
	a) Zero	b) Carry	
	c) Parity What is the size of MOV D. A in	d) Sign	
5.		struction in 8085 Microprocessor?	
	a) One Wordc) Three Word	b) Two Word	
6.	,	d) Four Word specify the direct or indirect address?	
0.	a) Address bits	b) Opcode Bits	
	c) Mode Bit	d) Control Word	
7	,	rm is correct for the process of transformation of th	16
, ·		s in control memory where the routine is located?	C
	a) Mapping	b) Pipelining	
	c) Sequencing	d) Acknowledging	
8	, 1	t a logical and bit manipulation operation?	
0.	a) Enable Interrupt	b) Increment	
	c) Clear Carry	d) Clear	
9.	Which one of the following is no	· · · · · · · · · · · · · · · · · · ·	
	a) Data dependency	b) Resource conflict	
	c) Branch conflict	d) Interrupt Hazard	
10	,	nization of parallel processing is only a theoretical interes	st

b) SIMD

since no practical system has been constructed?

a) SISD

c) MISD d) MIMD

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Group - B

Attempt any SIX questions.

 $[6 \times 5 = 30]$

- 11. Explain the Bus organization of 8085 Microprocessor.
- 12. Explain the opcode fetch machine cycle for MVI A, 32H with timing diagram.
- 13. Explain the 8085 Instruction addressing modes with example.
- 14. Explain the memory hierarchy with diagram.
- 15. Explain the organization of Microprogrammed Control Unit.
- 16. Define control word. Explain the procedure for generating control word for specific operation.
- 17. Define instruction pipeline. Explain the four-segment instruction pipeline with example.

Group - C

Attempt any Two Questions.

 $[10 \times 2 = 20]$

- 18. Explain the functional block diagram of 8085 Microprocessor.
- 19. Explain the design and control logic of Accumulator.
- 20. Explain the different data transfer and manipulation instructions with example.

Best of Luck!