

# **Tribhuvan University**

## **Faculty of Humanities & Social Sciences** OFFICE OF THE DEAN 2018

**Bachelor in Computer Applications** Full Marks: 60 **Course Title: Microprocessor and Computer Architecture** Pass Marks: 24 Time: 3 hours Code No: CACS 155

Semester: II

**Centre: Symbol No:** 

Candidates are required to answer the questions in their own words as far as possible.

### Group - A

Attempt all the questions.

c) Mode Bit

 $[10 \lor 1 - 10]$ 

111	empt an the questions.		
Cir	cle (O) the correct answer.		
1.	How many number of pins are there in 8085 Micro	oprocessor?	
	a) 16	b) 20	
	c) 32	d) 40	
2.	Which one of the following interrupt has the highest priority?		
	a) RST7.5	b) TRAP	
	c) RST6.5	d) RST5.5	
3.	How many bytes make a word of 32 bits?		
	a) One Byte	b) Two Bytes	
	c) Three Bytes	d) Four Bytes	
4.	Which one of the following flag has set or reset v	value on the basis of even or odd number	
	of 1's in result?		
	a) Zero	b) Carry	
	c) Parity	d) Sign	
5.	What is the size of MOV B, A instruction in 8085	Microprocessor?	
	a) One Word	b) Two Word	
	c) Three Word	d) Four Word	
6.	Which one of the following bit(s) specify the dire	ct or indirect address?	
	a) Address bits	b) Opcode Bits	

d) Control Word

7.	Which one of the following term is correct for the process of transformation of the instruction code bits to an address in control memory where the routine is located?		
	a) Mapping	b) Pipelining	
	c) Sequencing	d) Acknowledging	
8.	. Which one of the following is not a logical and bit manipulation operation?		
	a) Enable Interrupt	b) Increment	
	c) Clear Carry	d) Clear	
9.	Which one of the following is not the pipelining hazard?		
	a) Data dependency	b) Resource conflict	
	c) Branch conflict	d) Interrupt Hazard	
10.	Which one of the following organization of	parallel processing is only a theoretical	
	interest since no practical system has been constructed?		
	a) SISD	b) SIMD	
	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.