REV-01 BCA/59/64

BACHELOR OF COMPUTER APPLICATION SECOND SEMESTER COMPUTER ORGANIZATION

SET A BCA-202
JUSE OMR SHEET FOR OBJECTIVE PARTI

2023/06

Du	ration: 3 hrs.	Full Marks: 70					
(Objective)							
Time: 30 mins. Marks: 20							
CI	oose the correct answer from the follo	owing: 1×20=20					
1.	The Carry Flag is set when thea. Zero c. Seventh	b. Fourth d. Eight					
2.	How many select lines would be required a. 2 c. 8	for an 8:1 MUX? b. 4 d. 3					
3.	Number of AND gate required to construct a. 2 c. 5	ct a full adder circuit using two half adder is: b. 3 d. 4					
4.	Which of the following is responsible for a a. ALU c. Control Unit	nrithmetic and logic operations? b. Memory d. All the above					
5.	CPU consists of: a. ALU & Memory c. Control Unit & Memory	b. ALU & Control Unit d. All the above					
6.	Program Counter (PC) is register used to	b. Store the result after execution d. Store the address of previous instruction					
7.	Size of Address Register(AR) in a basic con a. 8 bits c. 16 bits	mputer is b. 12 bits d. 32 bits					
8.	In 8-bit microprocessor, how many opcode a. 246 c. 250	es are possible? b. 278 d. 256					
9.	Which of the following is unidirectional? a. Address bus c. Both a & b	b. Data bus d. None					
10.	Hit ratio is a term used to measurea. Speed c. Accuracy	b. Memory Capacity d. Performance					

11.	 During a write operation if the required block is not present in the cache then 		
	a. Write miss	b.	Write latency
	c. Write hit		Write delay
12.	The bit used to indicate whether the block was recently used or not is		
	a. Reference bit		Dirty bit
	c. Control bit	d.	Idol bit
13.	Which one of the following is not a valid classification of Computer Architecture?		
	a. SISD	b.	MISD
	c. DISD	d.	MIMD
14.	In RAID technology, Striping technology is used in		
	a. Level 0	b.	Level 1
	c. Level 3	d.	Level 6
15.	In the client server model of the clusterapproach is used.		
	a. Load configuration		FIFO
	c. Bankers algorithm	d.	Round robin
16.	The CISC stands for		
	a. Computer Instruction Set Compliment	b.	Complete Instruction Set Compliment
	c. Computer Indexed Set Components		Complex Instruction set computer
17.	The iconic feature of the RISC machine among the following is		
	a. Reduced number of addressing modes	b.	Increased memory size
	c. Having a branch delay slot	d.	All of the mentioned
18.	Pipe-lining is a unique feature of		
	a. RISC	b.	CISC
	c. ISA	d.	IANA
19.	Two level memory is a principle known as		
	a. Direct Memory Access		Associative memory
	c. Locality of Reference		Virtual memory
20.	The multiplier is stored in		
	a. PC Register	b.	Shift register
	c. Cache		O

(<u>Descriptive</u>)

Time: 2 hr. 30 mins.					
[Answer question no.1 & any four (4) from the rest]					
1.	Explain with the help of block diagram of Pin Configuration of the 8085 microprocessor architecture.	10			
2.	a) Explain Edge Triggered Flip Flop with block diagram.b) What is micro-program? Write down three examples of Logic and Shift micro-operations.	5+5=10			
3.	 a) Given A= 10110 B= 10010, then compute Ax B with suitable algorithm. b) What is interrupt signal? What are different interrupt signal available? Explain. 	5+5=10			
4.	a) What is control word? Explain with example how a computer executes instructions with relevance to control word. b) Write an Assembly program to add two numbers.	5+5=10			
5.	a) Explain briefly about the functionality of 8089 IOP.b) What is peripheral? Write down the role on interface unit in IO devices.	5+5=10			
6.	List 10 instructions from the instruction set supported by 8085 microprocessor with their syntax and purposes.	10			
7.	a) What is pipeline processing? Explain with a suitable example. b) Realize a Full adder using two Half adder circuits.	5+5=10			
8.	Write short notes on: (any two) a) Infiniband b) Firewire c) Superscaller processor	5+5=10			

== *** ==