

BBC-003-003109 Seat No. _____

B. C. A. (Sem. I) Examination

July - 2021

CS - 03: Computer Fundamentals And Emerging **Technology**

Faculty Code: 003

Subject Code: 003109

Time	: 2	$\frac{1}{2}$ Hours] [Total M	arks :	70
1	Ansv	wer the following:		20
	(1)	Give definition of Computer.		
	(2)	The brain of any computer system is		
	(3)	Which technology was used in Second general computers?	ation	
	(4)	ALU stands for		
	(5)	Give the full form of GIS.		
	(6)	Give the full form of GPS.		
	(7)	EBCDIC stands for		
	(8)	Give definition of Operating System.		
	(9)	Give the full form of EEPROM.		
	(10)	Give the full form of LCD.		
	(11)	1 Nibble = bits.		
	(12)	What is Cache Memory?		
	(13)	USB stands for		
	(14)	generation of computers was made u	ıp of	
	(15)	DPI stands for		
	(16)	Give the full form of Bit.		
	(17)	1's Complement of the 10010.		
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	(18)		is the most popular input device for y of data and instructions into computer.	direct			
	(19)	Does the compiler program translate the whole source code in one step? (Yes/No)					
	(20)	Give the full form of CDMA.					
2	(A)	Atte	mpt the following : (Any Three)	6			
		(1)	Draw block diagram with all components.				
		(2)	Explain Time Sharing OS.				
		(3)	Explain Remote Sensing.				
		(4)	Define: Half Duplex and Full Duplex				
		(5)	Discuss Plasma.				
		(6)	List out four number systems with their bas range.	e and			
	(B)	Atte	mpt the following: (Any Three)	9			
		(1)	Explain Characteristics of Computer.				
		(2)	Explain MICR.				
		(3)	Define: Carry Bit, Parity Bit, Sign Bit				
		(4)	Give definition of Assembler, Compiler Interpreter.	and			
		(5)	Explain wi-Fi in detail.				
		(6)	Explain ROM, PROM, and EPROM.				
	(C)	Attempt the following: (Any Two)					
	` ′	(1)	Write a note Analog, Digital & Hybrid Com	outer.			
		(2)	Convert following from Binary to Octal (i) 10011011 (ii) 1101110				
		(3)	Explain ports and its types.				
		(4)	Explain different types of Optical Scanner.				
		(5)	Explain Mouse.				
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- 3 (A) Attempt the following: (Any Three)
 6 (1) Define: Double word and Quad word.
 (2) Explain Light Pen.
 - (3) 2's Complement of (11100010).
 - (4) Convert $(AB2)_{16} = (?)_2$.
 - (5) Explain Blu-Ray Disc.
 - (6) Convert: $(425)_{10} = (?)_6$
 - (B) Attempt the following: (Any **Three**)
 - (1) Difference between Impact Printer & Non-Impact Printer.
 - (2) Solve binary subtraction using 1's complement and 2's complement: 11100011 1010101
 - (3) Explain Magnetic Tape and Magnetic Disk.
 - (4) Explain CD and DVD.
 - (5) Explain CRT.
 - (6) Explain RAM in detail.
 - (C) Attempt the following: (Any Two)
 - (1) Explain different types of Computer Languages.
 - (2) Write a note on Optical Fiber.
 - (3) What is Virus? Explain types of virus.
 - (4) Explain Bluetooth technology.
 - (5) Write a note on Cell Phone Frequency and Cell Phone Network.

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