16393-BCA-I-Com-Fun-Soft-CC-01-19-E.docx

Course Code : BCA-CC-01

BCA-I/BCA-CC-01/19

Full Marks: 50

BCA 1st Semester (Honours) Examination, 2019-20 (CBCS) **BACHELOR OF COMPUTER APPLICATION**

Course ID : 13511

Course Title : Computer Fundamental and PC Software

Time: 2 Hours

The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

Group-A

1.	An	swer	all the following questions:		1×10=10
	(i)	Acco	ording to Boolean Law $A + 1 = ?$		
		(a)	1	(b) A	
		(c)	0	(d) A'	
		(e)	None of these		
	(ii)	The	basic architecture of computer was develop	ed by	
		(a)	John Von-Neumann	(b) Charles Babbage	
		(c)	Blaise Pascal	(d) Garden Moore	
		(e)	None of them		
	(iii)	Whi	ch of the following memory is Non-Volatile	2?	
		(a)	SRAM	(b) DRAM	
		(c)	ROM	(d) All of these	
		(e)	None of these		
	(iv)	The softv	normally interact with the system via vare—	user interface provide by the ap	plication
		(a)	Programmers	(b) Developers	
		(c)	Tester	(d) User	
		(e)	None of these		
	(v)	flowchart?			
		(a)	Better Communication	(b) Efficient Coding	
		(c)	Systematic Testing	(d) Improper Documentation	
		(e)	None of these		

((vi) 'Reference' command can be taken from wh	ich menu?	
	(a) Insert	(b) Format	
	(c) Table	(d) File	
	(e) None of these		
(*	vii) The largest two digit hexa-decimal number is	ŝ	
	(a) $(FD)_{16}$	(b) (<i>FE</i>) ₁₆	
	(c) $(FF)_{16}$	(d) $(EF)_{16}$	
	(e) None of these		
(v	iii) Compiler and Interpreters are themselves		
	(a) High level language	(b) Codes	
	(c) Programs	(d) Mnemonics	
	(e) None of these		
((ix) Fifth Generation Computers are based on		
	(a) Artificial Intelligence	(b) Programming Intelligence	
	(c) System Knowledge	(d) VVLSI	
	(e) None of these		
	(x) GUI stands for		
	(a) Graph Use Interface	(b) Graphical Universal Interface	
	(c) Graphical User Interface	(d) Graphical Unique Interface	
	(e) None of these		
	Group-I	3	
2.	Answer any five questions:		2×5=10
	(a) Convert $(9AE \cdot BC)_{16}$ to Octal.		
	(b) Prove that $-A'B + AB + A'B' = A' + B$.		
	(c) Differenciate between 1'S complement and 2	2'S complement.	

- (d) What is E-mail?
- (e) What is Computer Virus?
- (f) What is the name of last column of Excel Worksheet?
- (g) What is Minterm?
- (h) What do you mean by Multiprogramming Operating System?

Group-C

3.	Answer	any four questions:	5×4=20
	(a) (i)	Explain different view of MS-Words.	
	(ii)	How do you insert animation? Explain.	3+2=5
	(b) Exp	lain different classes of Memory Hierarchy.	5
	(c) (i)	Perform the subtraction using 2'S complement arithmetic = $(11101)_2 - (01000)_2 - (010000)_2 - (010000)_2 - (010000)_2 - (010000)_2 - (010000)_2 - (010000)_2 - (010000)_2 - (010000)_2 - (010000)_2 - (010000)_2 - (010000)_2$	0101) ₂ .
	(ii)	Design X-OR gate using NAND gates only.	3+2=5
	(d) (i)	What is USB?	
	(ii)	What are the different types of software?	1+4=5
	(e) Drav	w the Flowchart to find the greatest of three (3) numbers.	5
	(f) What	at do you mean by Canonical form? What are the functions of Operating Syste	em? 2+3=5
		Group-D	
4. Answer <i>any one</i> question:		any one question:	1×10=10
	(a) (i)	Simplify the following Expression:	
		Y = A + A'B + A'B'C + A'B'C'D	
	(ii)	Obtain the following in SOP and POS form:	
		F(A, B, C) = (A' + B)(B' + C)	
	(iii)	Simplify the following function and Design the circuit using Gates:	
		$F(W, X, Y, Z) = \sum_{m} (0, 2, 6, 8, 10, 11, 14)$	3+3+4=10
	(b) (i)	Write the steps to create a pie chart in MS-Excel.	
	(ii)	How do you insert Mathematical Equation in MS-Word? Explain.	
	(iii)	What do you mean by Header and Footer?	5+4+1=10

(3)