



## **BRAINWARE UNIVERSITY**

## Term End Examination 2022 Programme – BCA-2019/BCA-2020/BCA-2021 Course Name – Computer Application and Hardware Course Code - BCAC102 ( Semester I )

Full Marks: 60
Time: 2:30 Hours
[The figure in the margin indicates full marks. Candidates are required to give their answers in their own

words as far as practicable.]

## **Group-A**

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following:

(i)	The file extension of MS-Word 2010 is stated to be			
	a) .pdf	b) .docx		
	c) .doc	d) .txt		
(ii)	Microsoft Word is an example of -			
	a) Operating System	b) System Software		
	c) Processing device	d) Application Software.		
(iii)	The file extension of MS-Word 2010 is -	,		
	a) .pdf	b) .docx		
	c) .doc	d) .txt		
(iv)	Windowing system of UNIX is also known as			
	a) X window system	b) Red Hat		
	c) LINUX	d) DOS		
(v)	In MS-DOS 6.22which part identifies the product uniquely?			
	a) 6.22	b) DOS		
	c) MS	d) MS-DOS		
(vi)	) The command to display system date in MS-DOS is -			
	a) Date command	b) Ver command		
	c) Disk command Format	d) command		
(vii)	Boolean algebra can be used to			
	a) Simplify any algebraic expression	b) Solve the mathematical problem		
	c) Minimize the number of switches in a circuit	d) Perform arithmetic calculations		
(viii) The OR operation performs in Boolean algebra by				
	a) Associative properties	b) Commutative properties		
	c) Distributive properties	d) All of these		

(1/)	canonical form is a unique way of representing		
	a) SOP	b) Minterm Boolean	
(x)	c) expression  The logic circuits whose outputs at any instant of but also on the past outputs are called		
(xi)	<ul><li>a) Combinational circuit</li><li>c) Latches</li><li>The basic R-S flip-flop is</li></ul>	b) Sequential circuits( d) Flip-flops	
	<ul><li>a) A monostable multivibrator</li><li>c) An astable multivibrator</li><li>When two 16-input multiplexers drive a 2-input N</li></ul>	b) A bistable multivibrato d) A Schmitt trigger MUX, what is the result we can see?	
(xiii)	a) 2-input MUX c) 24-input MUX One multiplexer can take the place of	b) 32-input MUX d) 62-input MUX	
	a) Several SSI logic gates( c) Several Ex-NOR gates	<ul> <li>b) Combinational logic circuits</li> <li>d) Several SSI logic gates or combination circuits</li> </ul>	al logic
(xiv)	The inputs/outputs of an analog multiplexer/de-r	nultiplexer are always	
(xv)	<ul><li>a) Bidirectional</li><li>c) Even parity</li><li>Which of the following circuits come under the cl</li><li>1. Full adder Case- 2. Full subtractor Case- 3. Half</li></ul>		
	a) 1 only c) 4 and 5	b) 3 and 4 d) 1,2 and 3	
	<b>Grou</b> (Short Answer Ty	•	3 x 5=15
3. Ex 4. W 5. Ex lin 6. W	hat are Microsoft DOS and Windows Command Licelain the working principle of the EXNOR gate with hat's the difference between MUX and Encoder? Explain the limitation of RS flipflop, and also explain mitations. That are the advantages of the Hexadecimal number 4.625 in the Octal number system.	h necessary examples. the possible solution to overcome the er system over octal? also, Convert decim	(3) (3) (3) (3)
W	hat is gate equivalence? Explain gate equivalence		(3)
	Grou	•	
	(Long Answer Ty	pe Questions)	5 x 6=30
8. \	Can the encoder be called a multiplexer? Write down the function of aligning text left, aligni ustify in MS Word.	ng text right, aligning center, and aligning	(5) (5)
9.	ist the commands, that are the same in MS-DOS & F(A,B,C,D)=A' C'+ABCD'+B' C' D+BCD'+A'B' (simplify What are counter circuits used for? Differentiate RS and JK flipflop with proper circuit or the counter circuit of the	with K map)	(5) (5) (5) (5)
,	<b>OF</b> What are counters and registers, explain difference		(5)
	at are countered and registers, explain anierence		(5)

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