



BRAINWARE UNIVERSITY

Term End Examination 2023-2024
Programme – B.Sc.(BT)-Hons-2021
Course Name – Computer Application
Course Code - BBTD501C
(Semester V)

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)	Which of the following computer bus connects the CPU to a memory on the system board?		
	a) Expension Bus	b) width bus	
	c) system bus	d) none of these	
(ii) Identify the following is not a valid C variable name?			
	a) int number;	b) float rate;	
	c) int variable_count;	d) int \$main;	
(iii)	Which of the following is the function of the cont	rol unit in the CPU?	
	a) It stores program instruction c) It performs logic operations	b) It decodes program instructiond) None of the above	
(iv)) Which of the following is used for binary multiplication?		
67 -	a) Restoring Multiplication c) Pascal's Rule Which of the following logic families has the short	b) Booth's Algorithm d) Digit-by-digit multiplication	
(v)			
	a) CMOS	b) BiCMOS	
	c) ECL	d) 74SXX	
(vi)	Number of minterms will be there for three variables (a,b,c)		
	a) 0	b) 2	
	c) 8	d) 1	
(vii)	A product term containing all K variable of the functions in their complemented or		

uncomplemented form is called a

a) Minterm

c) Midterm

b) Maxterm

d) ∑term

(viii) Produce the output of $(A + B)(A' * B') = ?$		
a) 1	b) 0	
c) AB	d) AB\'	
(ix) The expression for Absorption law is given by		
a) A + AB = A	b) A + AB = B	
c) AB + AA' = A	d) $A + B = B + A$	
(x) The main virtue for using single Bus structure is		
a) Fast data transfers	b) Cost effective connectivity and speed	
c) Cost effective connectivity and ease of	d) None of the mentioned	
attaching peripheral devices	None of the mentions	
(xi) The small extremely fast, RAMs are called as		
	b) hip	
a) cache	d) heap	
c) accumulator(xii) Write the output device which is used to display v	isual output to the user?	
	L\ Admitor	
a) Printer	b) Monitor	
c) Keyboard	d) Mouse	
(xiii) What is the value of n in multiplication of 110* 10	00?	
a) 2	b) 3	
c) 4	d) 0	
(xiv) Where is the decoded instruction stored?		
a) Register	b) MDR	
c) PC	d) IR	
(xv) Where is the document temporarily stored during	working on a document on PC?	
a) ROM	b) CPU	
c) RAM	d) FLASH MEMORY	
9 ,		
Group	-В	
(Short Answer Typ		3 x 5=15
,		
2. Explain De-Morgan's theorem.		(2)
3. Define Super Computer?		(3)
4. Explain for loop.		(3)
5. Differentiate between Multicomputer and Multiproce	essor	(3)
6. Explain, Can a C program be compiled or executed in	the absence of a main () a	(3)
OR	the absence of a main()?	(3)
Explain C Token?		
anplant o rottom		(3)
Grann	•	
Group		
(Long Answer Typ	e Questions)	5 x 6=30
7 (1) (1) (1)		
7. characteristics of primary memory & secondary men	mory.	(5)
8. Evaluate the following expressions using K-map: (i) F	= Σm(0,1,3,5,6,11.15)	
5. Calculate 1/2 using booth's multiplication algorithm	•	(5)
10. Explain Computer Memory? Briefly Discuss about th	em?	(5)
11. Distinguish between while loop and dowhile loop.		(5)
12. What Is an ALU & explain its work?		(5)
Adding of the state of the stat	the control of the co	(5)
Adding of the positive value with a negative value will magnitude. 1101 and -1110	hen the negative number !	
magnitude. 1101 and -1110	a higher	(5)