Mid Semester Examination 2020, BCA Sem-II (2019-2022)

Time: 1 hour
Full marks: 20
Each question carries 1 point
* Required

1.	Email address *
2.	Name *
3.	Class roll no. *
4.	University roll no. *
A	I questions are compulsory
5.	1. A combinational circuit is one in which the output depends on the*
	Mark only one oval.
	Input combination at any time
	Input combination and the previous output
	Present output and previous output
	Input combination at that time and the previous input combination

6.	2. Using K- map, the simplified expression for function $F(A,B,C,D) = \sum m$ (0,2,8,10) is *	1 point
	Mark only one oval.	
	A'B'	
	B'C'	
	B'D'	
	C'D'	
7.	3. 4 to 1 MUX will produce *	1 point
	Mark only one oval.	
	4 outputs	
	3 outputs	
	2 outputs	
	1 output	
8.	4. How is the decimal number 10 represented in its BCD form? *	1 point
	Mark only one oval.	
	001010	
	0010000	
	01010	
	1010	

9.	5. Which of the following are the building blocks of encoders? *	1 point
	Mark only one oval.	
	NAND Gate	
	AND Gate	
	NOT Gate	
	OR Gate	
10.	6. How many types of Latches are there? *	1 point
	Mark only one oval.	
	4	
	2	
	5	
	3	
11		
11.	7. How many valid entries are there in the truth table of the SR flip flop? *	1 point
	Mark only one oval.	
	3	
	1	
	2	
	4	
12.	9. LIICH output can be can be produced by AND logic gets through which	4
12.	8. HIGH output can be can be produced by AND logic gate through which of the following input values? *	i point
	Mark only one oval.	
	At least one input is HIGH	
	At least one input is LOW	
	All inputs are LOW	
	All inputs are HIGH	

13.	9. Which is the basic logic gate whose output is the complement of the input? *	1 point
	Mark only one oval.	
	Comparator	
	OR Gate	
	AND Gate	
	INVERTER Gate	
14.	10. The absorption law of boolean algebra states that *	1 point
	To the about phothaw of boolean algebra states that	i ponit
	Mark only one oval.	
	(x+y)= xy	
	x+xy= x	
	xy+y= x	
	None of the above	
15.	11. What is the sum of octal numbers 71 and 36 *	1 point
	Mark only one oval.	
	123	
	127	
	213	
	345	
16.	12. What is 2's complement of binary number 101100010110? *	1 point
	Mark only one oval.	
	11111111111	
	101010101010	
	010011101010	
	010011101001	

17.	13. x+y=y+x is *	1 point
	Mark only one oval.	
	Inverse property	
	Commutative law	
	Associative law	
	Oldentity law	
18.	14. Which is the first operator precedence in evaluating Boolean algebra?	1 point
	Mark only one oval.	
	AND	
	Parenthesis	
	OR	
	NOT	
19.	15. Don't care conditions can be used for simplifying Boolean algebra * Mark only one oval.	1 point
	Registers	
	Terms	
	K- map	
	Latches	
20.	16. Adding the two BCD numbers 1001+ 1000= *	1 point
	Mark only one oval.	
	10001	
	00010111	
	00010001	
	11010000	

21.	17. What is a trigger pulse?	1 point
	Mark only one oval.	
	A pulse that reuses the cycle of operation	
	A pulse that prevents a cycle of operation	
	A pulse that starts a cycle of operation	
	None of the above	
22.	18. What are synchronous or clocked and asynchronous or unclocked types of? *	1 point
	Mark only one oval.	
	Sequential circuit	
	Combinational circuit	
	Parallel circuit	
	Serial circuit	
23.	19. If A, B, C are the inputs of a full adder then the carry is given by *	1 point
	Mark only one oval.	
	A OR B OR (A AND B) C	
	A XOR B XOR (A XOR B) AND C	
	(A AND B) OR (A AND B) C	
	A AND B OR (A OR B) AND C	
24.	20. If A & B is the input of a subtractor then the borrow will be *	1 point
	Mark only one oval.	
	A OR B	
	A' * B	
	A AND B	
	A * B'	

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