CHAPTER-3 BOOLEAN LOGIC

ONLINE TEST-ANSWERKEY

I. OTQ (Objective Type Questions)				
1. The involution of A is equal to				
a) A b) \overline{A} c) 1 d) 0				
2. The output of a two-input OR gate is high when				
a) Both inputs are low b) Both inputs are high				
c) Any one input is high d) only one input is high				
3. If an input A is given to an inverter gate, the output will be:				
a) 1/A b) 1 c) A d) Ā				
4. The output of a two-input AND gate is high when				
a) Both inputs are low b) Both inputs are high				
c) Any one input is high d) only one input is high				
5. According to the associative law:				
a) $A+B=B+A$ b) $A=A+A$ c) $(A+B)+C=A+(B+C)$ d) $A+0=A$				
6. According to Boolean laws: $A + 1 = $?				
a) 1 b) A c) 0 d) Ā				
7. According to Boolean laws: $A + 0 = $?				
a) 1 b) A c) 0 d) \overline{A}				
8. Which gate produces 1 when all inputs are low?				
a) NOT b) NAND c) AND d) NOR				
9. According to Boolean laws: A $. 0 = $?				
a) 1 b) A c) 0 d) Ā				
10. The expression for the Absorption law is given by				
a) $A+AB=A$ b) $A+AB=B$ c) $AB+A\overline{A}=A$ d) $A+B=B+A$				
11. What gate produces 0 when all inputs are high?				
a) NOT b) NAND c) AND d) NOR				
12. Which of the following is/are the universal logic gates?				
a) OR and NOR b) AND c) NAND and NOR d) NOT				
13. Gate NAND can be simplified as ;				
a) AND followed by OR b) AND followed by NOT				
c) NOT followed by AND d) OR followed by AND				
14. Gate XNOR can be simplified as ;				
a) XOR followed by OR b) XOR followed by NOT				
c) NOT followed by XOR d) XOR followed by AND				

15. According to the distributive law A(B+C)=?				
a) ABC	b) AB+AC	c) A+B+C	d) A+BC	
16. According to the commutation	ive law			
a) AB=BA	b) A=AA	c) (AB)C=A(BC)	d) A.0=A	
17. The logic gate that provides high otput for same inputs for all variables in a 2-variable trouth table is gate.				
a) NOT	b) XNOR	c) AND	d) XOR	
II. Fill in the blanks				
18. The NOT gate takes only input.				
19. The NOR gate produces 1 when all inputs are				
20. The statements that can be determined as TRUE/FALSE are calledstatements.				
21. Truth values are and				
22. A logical expression, which is always TRUE for all inpts, is termed as				
23. The XOR gate produces when odd numbers of 1's are there in the input combination.				
24. Basic gates are types.				
25. NOR Gate is inverter of	gate.			
KeyAnswer for Fill up:				
18. One				
19.0				
20. Logical				
21. 0 and 1 22. Tautology POLUR				
23. 1 23. 1				
24. 3				
25. OR				