

ST. LAWRENCE HIGH SCHOOL A JESUIT CHRISTIAN MINORITY INSTITUTION



ANSWER KEY – 1 TOPIC – LOGIC GATES & COMBINATIONAL CIRCUITS

SUBJECT: COMA F.M.: 15	A		CLASS: XII DATE: 02.05.2020			
> Choose the correct option: (1X15=15						
1) Which of the follor (a)NOT	wing is a basic logic gat (b) NOR	e? : (c) NAND	(d) XOR			
2) Which of the follov (a)NOT	wing is an Universal ga (b) AND	te?: (c) NAND	(d) XOR			
3) Which of the follo (a)NOT	wing is an Exclusive gat (b) AND	te? : (c) NAND	(d) XOR			
 4) Which of the following is true for NAND gate? : (a) 1 NAND 1 = 0 (b) 1 NAND 1=1 (c) 0 NAND 0=0 (d) both (b) & (c) 						
5) Which of the follo (a) 1.1 = 0	wing is true for AND ga (b) 1.1=1	te? : (c) 0.0=0	(d) both (b) & (c)			
6) Which gate may b (a)NOT	e termed as inverter? : (b) AND	(c) NAND	(d) XOR			
7) What is the outpu (a) 1	t for 1 + 0 ? : (b) 0	(c) 10	(d) None of these			
8) What is the outpu (a) 1	t for 1.0 ? : (b) 0	(c) 10	(d) None of these			
9) What is the outpu (a) 1	t for	(c) 10	(d) None of these			
10) Which gate is the (a)NOT	e logical complement of (b) NOR	f XOR? : (c) NAND	(d) XNOR			
11) Which gate is the (a) NOT	e logical complement o (b) NOR	f OR? : (c) NAND	(d) XNOR			
12) Which gate work <mark>(a) NOT</mark>	s with one input? : (b) NOR	(c) NAND	(d) XNOR			

13) How many states are possible with 2 inputs? :								
(a) 1	(b)	2 ((c) 3	(d) 4				
14) A logic gate has how many outputs? : (a) 0 (b) 1 (c) 2 (d) 3								
15) The complement of the AND gate is called: (a) NOT (b) NOR (c) NAND (d) XNOR								
