

ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



WORKSHEET - 1 TOPIC - LOGIC GATES & COMBINATIONAL CIRCUITS

SUBJECT: COMA CLASS: XII DATE: 02.05.2020

Choose the corre	(1X15	=15)		
1) Which of the follow (a)NOT	ring is a basic logic gate (b) NOR	? : (c) NAND	(d) XOR	
2) Which of the follow (a)NOT	ring is an Universal gate (b) AND	e?: (c) NAND	(d) XOR	
3) Which of the follow (a)NOT	ring is an Exclusive gate (b) AND	? : (c) NAND	(d) XOR	
4) Which of the follow (a) 1 NAND 1 = 0	ring is true for NAND ga (b) 1 NAND 1=		=0 (d) both (b) & (c)	
5) Which of the follow (a) 1.1 = 0	ring is true for AND gate (b) 1.1=1	e? : (c) 0.0=0	(d) both (b) & (c)	
6) Which gate may be (a)NOT	termed as inverter? : (b) AND	(c) NAND	(d) XOR	
7) What is the output (a) 1	for $\overline{1+0}$?: (b) 0	(c) 10	(d) None of these	
8) What is the output (a) 1	for $\overline{1.0}$? : (b) 0	(c) 10	(d) None of these	
9) What is the output (a) 1	for $\overline{1}$? : (b) 0	(c) 10	(d) None of these	
	ogical complement of (b) NOR		(d) XNOR	
11) Which gate is the l	ogical complement of (b) NOR	OR? : (c) NAND	(d) XNOR	
12) Which gate works (a) NOT	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						
(4) 0	(8) =	(0) 2	(4) 3						
15) The complement of the AND gate is called:									
(a) NOT	(b) N	J	(c) NAI	۷D	(d) XNOR				
(,	(3)	- · ·	(-)		(,				
