

ST. LAWRENCE HIGH SCHOOL



A Jesuit Christian Minority Institution

WORKSHEET - 23

Topic – SOP and POS

Subject: COMPUTER SCIENCE	Class - 11	F.M:15
Chapter: Boolean Algebra		Date: 17/08/2020
Choose the correc	t answer for each ques	tion: [5 X 1 = 15]
1. The terms in SOP ar		
a) max terms		
b) min terms		
c) mid terms		
d) sum terms		
2. A sum of products e	expression is a product term (min term) or several min terms ANDed
together.		
a) True		
b) False		
3. Which of the follow	ving is an incorrect SOP expres	sion?
a) x+x.y		
b) (x+y)(x+z)		
c) x		
d) x+y		
4. The corresponding	min term when x=0, y=0 and a	2=1.
a) x.y.z'		
b) X'+Y'+Z		
c) X+Y+Z'		
d) x'.y'.z		
5. The expression A+B	C is the reduced form of	
a) AB+BC		
b) (A+B)(A+C)		
c) (A+C)B		
d) (A+B)C		
6. The number of min	terms for an expression comp	prising of 3 variables?
a) 8		
b) 3		
c) 0		
d) 1		
7. The terms in POS ar	re called	
a) max terms		
b) min terms		

c) mid terms	
d) sum terms	
8. Which operation is shown in the following expression: (X+Y').(X+Z	').(7'+ Y')
a) NOR	
b) ExOR	
c) SOP	
d) POS	
9. The expression Y=AB+BC+AC shows the operation.	
a) EX-OR	
b) SOP	
c) POS	
d) NOR	
10. A product term containing all K variables of the function in either	complemented or
uncomplemented form is called a	complemented of
a) Minterm	
b) Maxterm	
c) Midterm	
d)∑term	
11. The expression Y=(A+B)(B+C)(C+A) shows the operation	on.
a) AND	
b) POS	
c) SOP	
d) NAND	
12. Canonical form is a unique way of representing	
a) SOP	
b) Minterm	
c) Boolean Expressions	
d) POS	
13. There are maxterms for 3 variables (a, b, c).	
a) 0	
b) 2	
c) 8	
d) 1	
14. A variable on its own or in its complemented form is known as a _	
a) Product Term	
b) Literal	
c) Sum Term	
d) Word	
15. The canonical sum of product form of the function $y(A,B) = A + B$ is	is
a) AB + BB + A'A	
b) AB + AB' + A'B	
c) BA + BA' + A'B'	
d) AB' + A'B + A'B'	
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