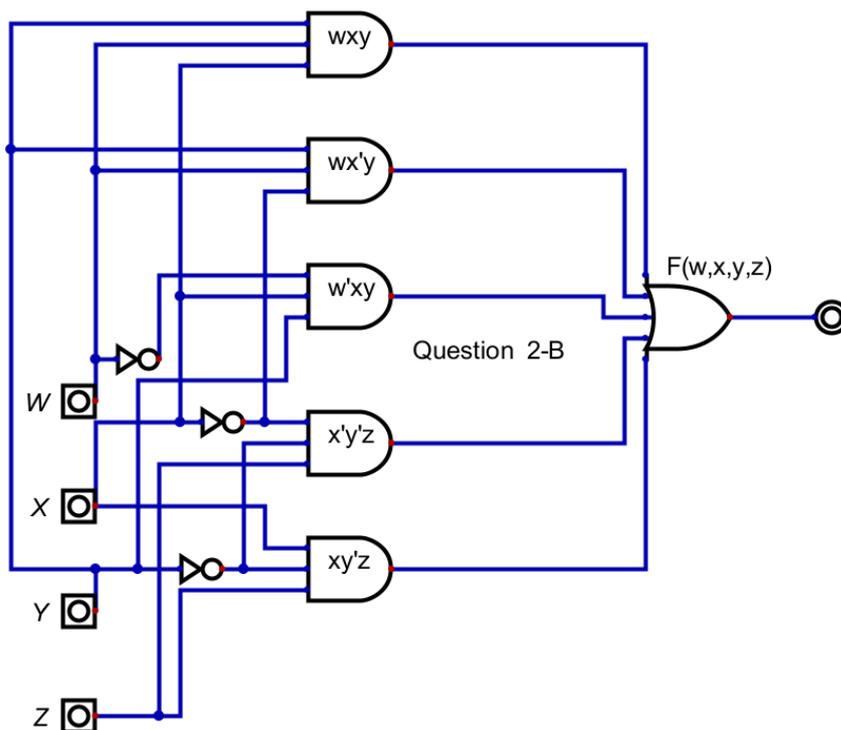


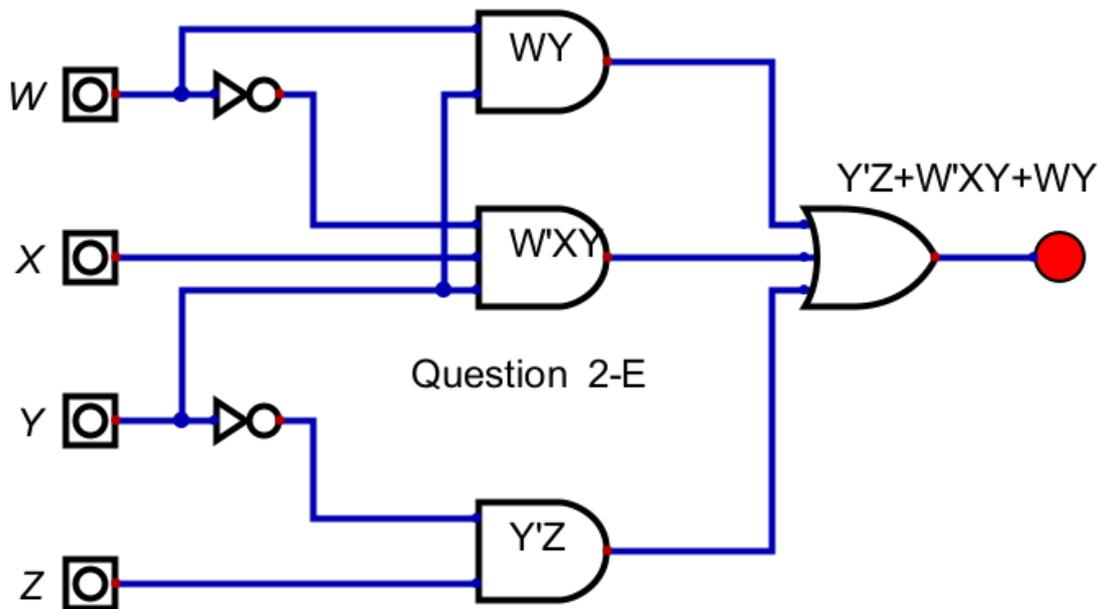
$xy'z + x'y'z + w'xy + wx'y + wxy$

W	X	Y	Z	F(W,X,Y,Z)	
0	0	0	0	0	
0	0	0	1	1	$x'y'z$
0	0	1	0	0	
0	0	1	1	0	
0	1	0	0	0	
0	1	0	1	1	$xy'z$
0	1	1	0	1	$w'xy$
0	1	1	1	1	$w'xy$
1	0	0	0	0	
1	0	0	1	1	$x'y'z$
1	0	1	0	1	$wx'y$
1	0	1	1	1	$wx'y$
1	1	0	0	0	
1	1	0	1	1	$xy'z$
1	1	1	0	1	wxy
1	1	1	1	1	wxy



	WX			
YZ	00	01	11	10
00	0	0	0	0
01	1	1	1	1
11	0	1	1	1
10	0	1	1	1

y'z+w'xy+wy					
W	X	Y	Z	F(W,X,Y,Z)	
0	0	0	0	0	
0	0	0	1	1	y'z
0	0	1	0	0	
0	0	1	1	0	
0	1	0	0	0	
0	1	0	1	1	y'z
0	1	1	0	1	w'xy
0	1	1	1	1	w'xy
1	0	0	0	0	
1	0	0	1	1	y'z
1	0	1	0	1	wy
1	0	1	1	1	wy
1	1	0	0	0	
1	1	0	1	1	y'z
1	1	1	0	1	wy
1	1	1	1	1	wy



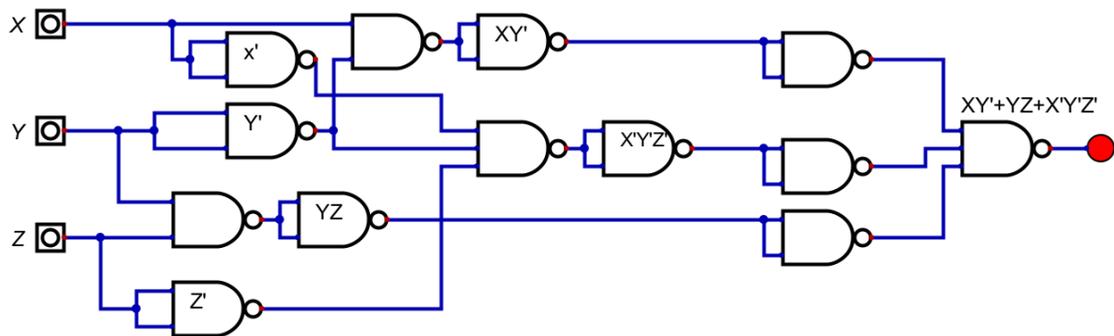
$X'Z'+Y'Z'+YZ'+XY$				
Z	XY	01	11	10
0	00	1	1	1
1	00	0	0	1
	01	1	1	0
	11	1	1	0
	10	0	0	1

SOP: $Z'+XY$
 POS: $(X+Z')(Y+Z')$
 SOMin: $01+00+10+11 = (1,0,2,3)$
 SOMax: $10+11+01+00 = (2,3,1,0)$

$AC'+B'D'+A'CD+ABCD$				
CD	AB	01	11	10
00	00	1	0	1
01	00	0	0	1
11	00	1	1	0
10	00	1	0	1
	01	0	0	0
	11	1	1	0
	10	0	1	1

SOP: $ACD'+BCD+AC'D'+AB'C'+A'B'C+B'C'D'$
 POS: $(A'+B+C'+D')(B'+C+D')(A+C+D')(A+B'+D)$
 SOMin: $10+00+011+1111 = (2,0,3,15)$
 SOMax: $01+11+100+0000 = (1,3,4,0)$

Question 4-A-i



Question 4-A-ii

