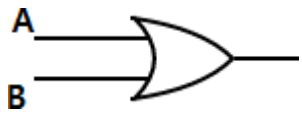
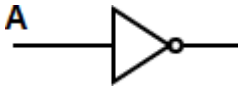
Grade 8 – Information Technology
Spot Test

Question 1: Identify logic gates and complete the truth tables.



A	B	Output

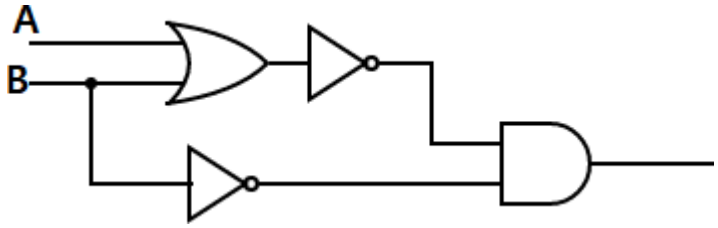


A	Output

A	B	Output

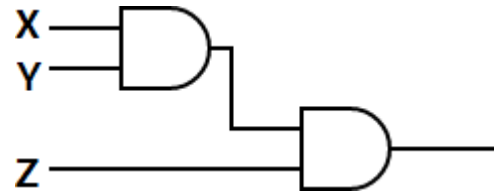
Question 2: Complete the following truth tables given below according to the logic gates.

Question 1



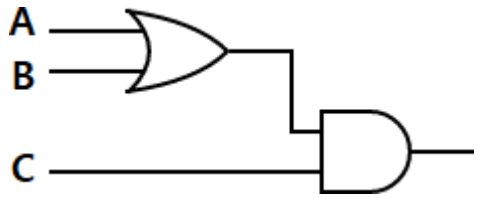
A	B	$A + B$	$\overline{A+B}$	$\overline{B}$	$(\overline{A+B}).\overline{B}$
0	0				
0	1				
1	0				
1	1				

Question 2



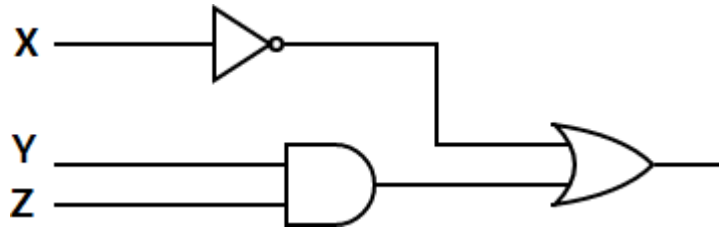
XX	Y	Z	$XX.Y$	$(XX.Y).Z$
0	0	0		
0	0	1		
0	1	0		
0	1	1		
1	0	0		
1	0	1		
1	1	0		
1	1	1		

Question 3



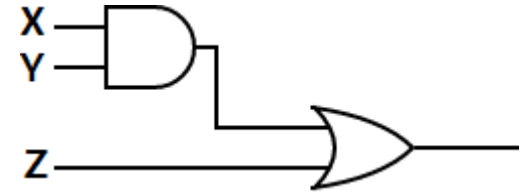
A	B	C	$A+B$	$(A+B).C$
0	0	0		
0	0	1		
0	1	0		
0	1	1		
1	0	0		
1	0	1		
1	1	0		
1	1	1		

Question 4



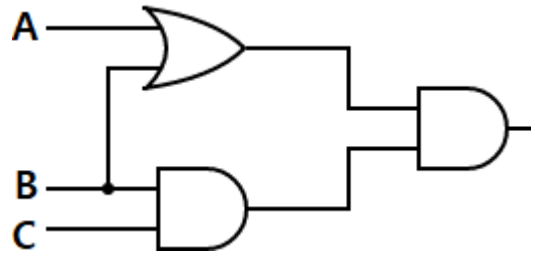
XX	Y	Z	XX	$Y.Z$	$XX + (Y.Z)$
0	0	0			
0	0	1			
0	1	0			
0	1	1			
1	0	0			
1	0	1			
1	1	0			
1	1	1			

Question 5



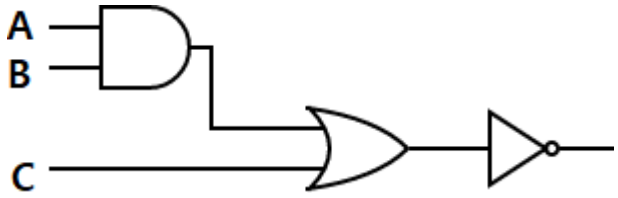
XX	Y	Z	$XX.Y$	$(XX.Y) + Z$

Question 6



A	B	C	$A+B$	$B.C$	$(A+B).(B.C)$

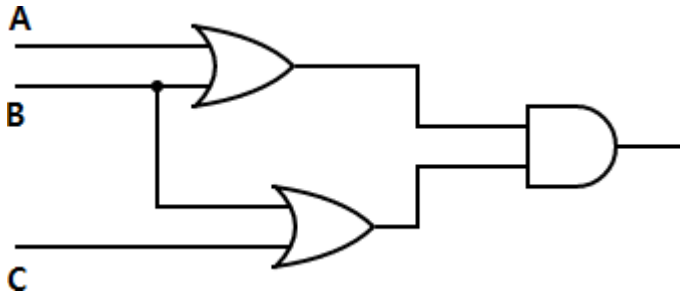
Question 7



A	B	C	$A.B$	$(A.B)+C$	$\overline{(A.B)+C}$

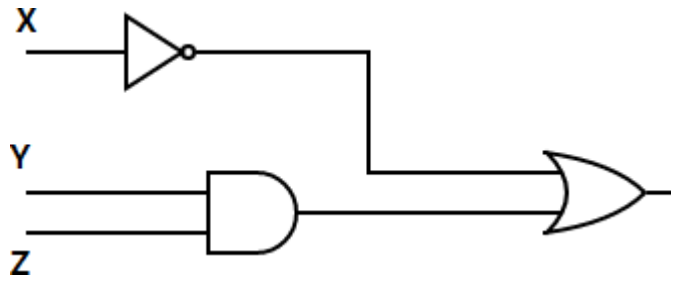
Question 3: Write the expression and draw the truth tables for given flowcharts.

Question 1



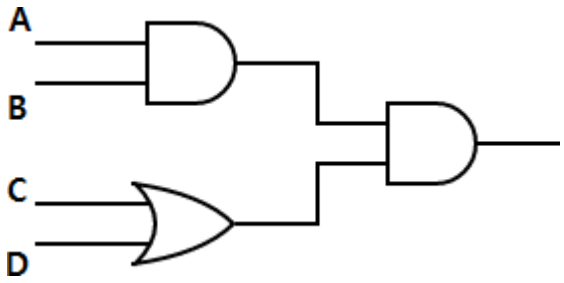
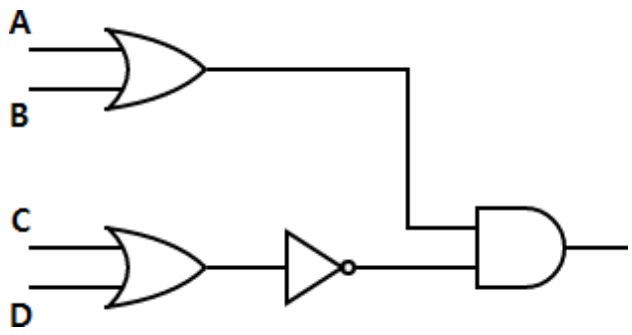
A	B	C	

Question 2



X	Y	Z	

Practice Questions



A	B	C	D	$A.B$	$C+D$	$(A.B).(C+D)$