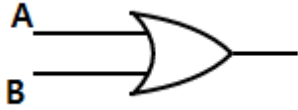
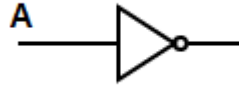


Grade 8 – Information Technology Spot Test

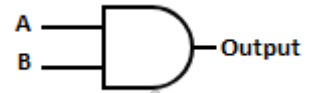
Question 1: Identify logic gates and complete the truth tables.



A	B	Output



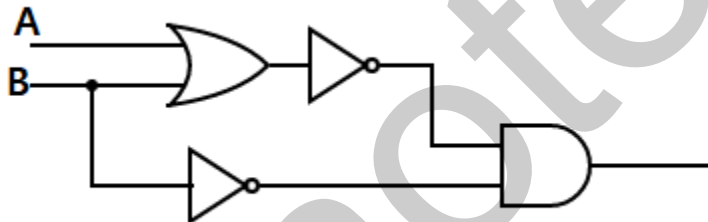
A	Output



A	B	Output

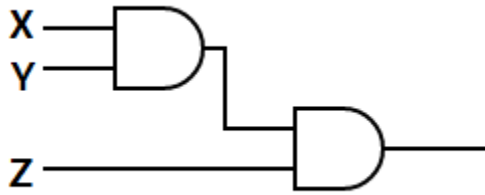
Question 2: Complete the following truth tables given below according to the logic gates.

Question 1



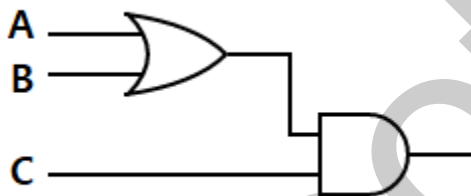
A	B	$A + B$	$\overline{A + B}$	\overline{B}	$(\overline{A + B}) \cdot \overline{B}$
0	0				
0	1				
1	0				
1	1				

Question 2



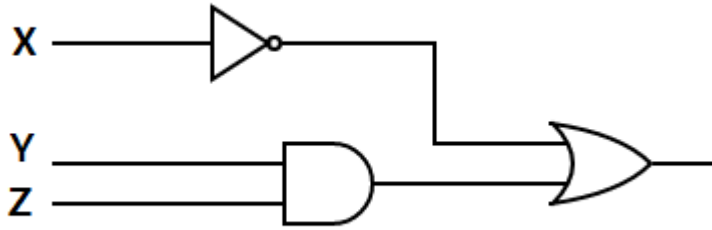
X	Y	Z	$X \cdot Y$	$(X \cdot Y) \cdot Z$
0	0	0		
0	0	1		
0	1	0		
0	1	1		
1	0	0		
1	0	1		
1	1	0		
1	1	1		

Question 3



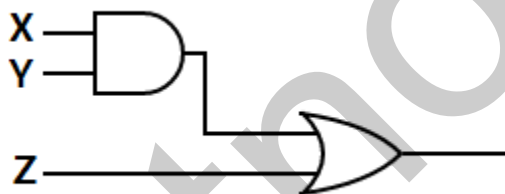
A	B	C	$A + B$	$(A + B) \cdot C$
0	0	0		
0	0	1		
0	1	0		
0	1	1		
1	0	0		
1	0	1		
1	1	0		
1	1	1		

Question 4



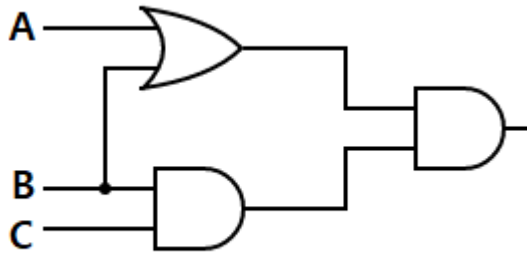
X	Y	Z	\bar{X}	$Y.Z$	$\bar{X} + (Y.Z)$
0	0	0			
0	0	1			
0	1	0			
0	1	1			
1	0	0			
1	0	1			
1	1	0			
1	1	1			

Question 5



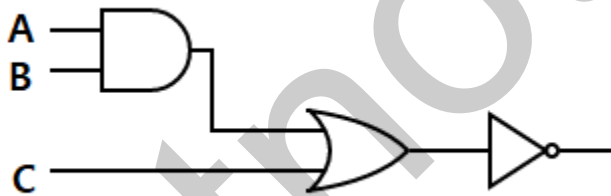
X	Y	Z	$X.Y$	$(X.Y) + Z$

Question 6



A	B	C	$A + B$	$B \cdot C$	$(A + B) \cdot (B \cdot C)$

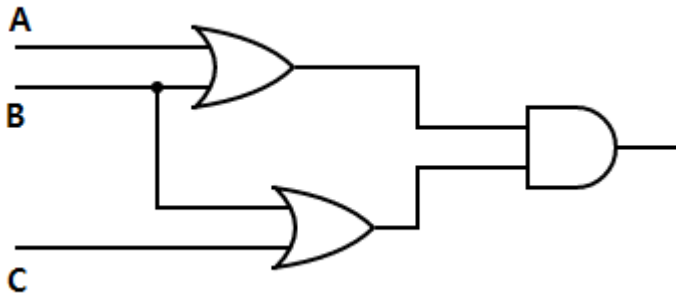
Question 7



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

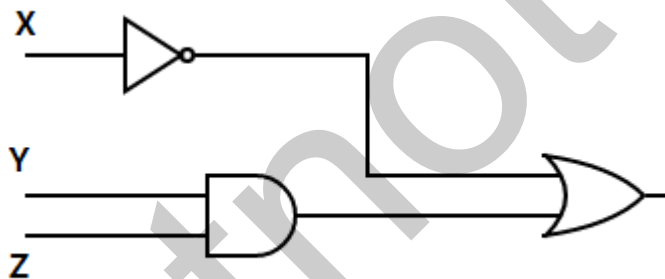
Question 3: Write the expression and draw the truth tables for given flowcharts.

Question 1



A	B	C	

Question 2



X	Y	Z	

