

1. Create a truth table for the logic gate above.

A	B	C	D	E	Q
0	0	0			
0	0	1			
0	1	0			
0	1	1			
1	0	0			
1	0	1			
1	1	0			
1	1	1			

[3]

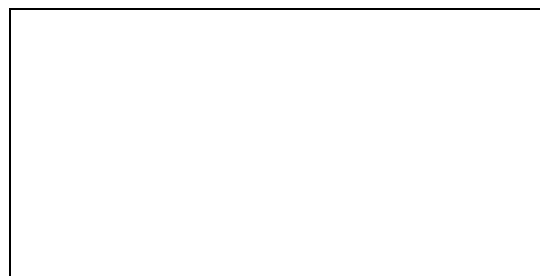
2. Write the logic equation for the logic gate above

.....

[2]

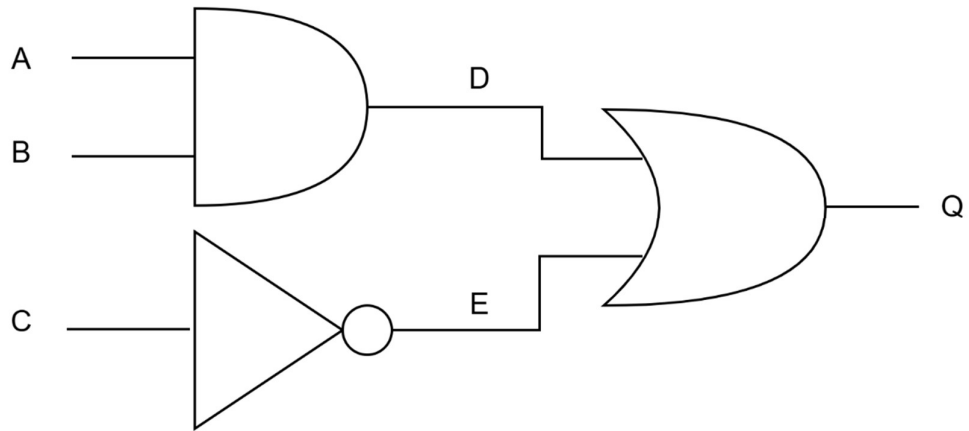
3. Identify the correct logic gate for the truth table below and draw the logic gate in the diagram on the right.

A	B	Output
0	0	0
0	1	1
1	0	1
1	1	1



Logic Gate:

[2]



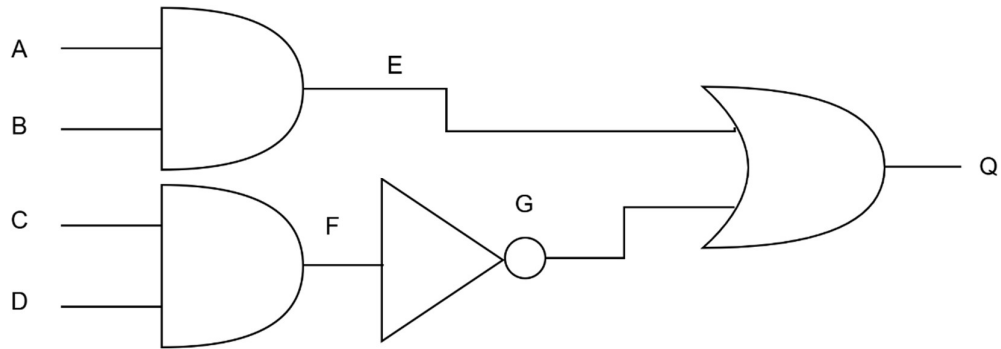
4. Create the truth table for the logic gate above.

[3]

5. Write the logic equation for the logic gate above

[2]





6. Complete the following truth table.

A	B	C	D	E	F	G	Q
			0				
			1				
			0				
			1				
			0				
			1				
			0				
			1				
			0				
			1				
			0				
			1				
			0				
			1				
			0				
			1				

[4]

7. Write the logic equation for the logic gate above

[3]



8. Draw the logic diagram for the following logic equation

$$P = ((\text{NOT } B) \text{ AND } (A \text{ AND } B))$$



[2]

9. Draw the truth table for the above logic equation

A	B			P

[3]

