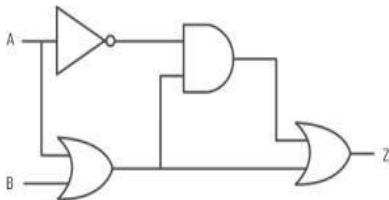


1. Draw the logic circuits for following expressions

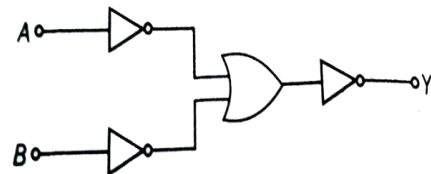
1. $F = (x + y)(x + y')$
2. $F = (x + y)'(x \cdot y)$
3. $F = (x \cdot y)' + z$
4. $F = (x \oplus y) \cdot (x \oplus y)'$
5. $F = (x \cdot y \cdot z) \cdot (x \cdot y') \cdot (x + y)$
6. $F = (A \cdot B \cdot C) \cdot (A + B) \cdot (A + C')$

2. Find the logic expression for the following logic circuits

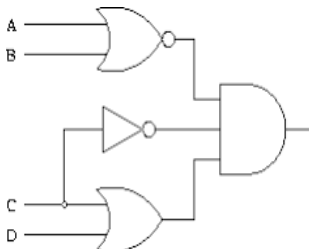
a.



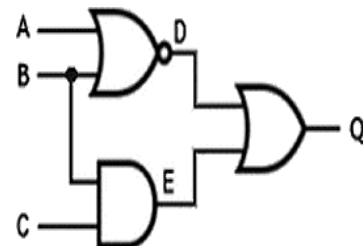
d.



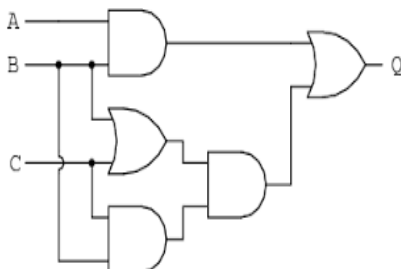
b.



e.



c.



3. Draw the truth tables for the following Boolean expressions

1. $A(B + C)$
2. $(A+B)(\overline{C \cdot A})$
3. $\overline{A}\overline{B}\overline{C} + \overline{A}BC$