LAB TEST 1

Circuit Implementation

TEACHER: MD. PEYAL (MPM)
EXAM TIME: 1 HOURS

Directions:

- Simplify the expression as much as you can or you can go through the implementation directly
- Make a truth table for the expression
- Implement the circuit in tinkercad
- Match the output with the truth table

Boolean Expression

1. (A’ ⊕ B)’ + C
2. (A’ + B)’ ⊕ C
3. (A + B)’ ⊕ C’
4. (A’ ⊕ B)’.C
5. (A’ ⊕ B)’ + C
6. A (B ⊕ C’)’
7. A (B’ ⊕ C)’
8. A + (B ⊕ C’)’
9. A + (B’ ⊕ C)’
10. A’ (B ⊕ C)’
11. A’ + (B ⊕ C)’
12. (A.B’ ⊕ C)’
13. (A’.B ⊕ C)’
14. (A.B ⊕ C’)’
15. (A + B’ ⊕ C)’
16. (A’ + B ⊕ C)’
17. (A + B ⊕ C’)’
18. (A ⊕ C + B’)’
19. (A’ ⊕ B + C)’
20. (A ⊕ B + C’)’
21. (A ⊕ B’ + C)’
22. (A’ ⊕ B + C)’
23. (A ⊕ B + C’)’
24. (D’ ⊕ A)’ + C
25. D (B ⊕ C’)’
26. A (D’ ⊕ C)’
27. D + (B ⊕ C’)’
28. D + (B’ ⊕ C)’
29. A’ (D ⊕ C)’
30. D’ + (B ⊕ C)’
31. (A.D’ ⊕ C)’
32. (D’.B ⊕ C)’
33. (A.D ⊕ C’)’
34. (A + D’ ⊕ C)’
35. (D’ + B ⊕ C)’
36. (A + D ⊕ C’)’
37. (D ⊕ C + B’)’
38. (D’ ⊕ B + C)’
39. (A ⊕ D + C’)’
40. (A + D’ ⊕ C)’