

Daffodil International University
Computer Science and Engineering Department
CSE 112 Computer Fundamentals
Summer-2025 Class Test: 02
Full Marks 15 Time- 30 Min
Date: 16/06/2025

Name: _____ Student ID: _____

From the following Boolean Expressions draw the logic circuit and simplify them and again draw a simplified logic circuit.

1. Expression: $(A \cdot B) + (A' \cdot B) + (A \cdot B')$
2. Expression: $((A+B)' + (A' \cdot B)) \cdot (A+B+C)$
3. Expression: $(A+B) \cdot (A'+C) \cdot (B'+C)$
4. Expression: $((A \cdot B')' + (A' \cdot B' \cdot C) + (A' \cdot B' \cdot C'))$
5. Expression: $(A \cdot B' \cdot C) + (A \cdot B \cdot C) + (A' \cdot C) + (A \cdot C')$