

DAY: _____

DATE: _____

Mid-Lab

Name: _____

M. Aftab Akram

Reg No: _____

FA24-BSE-060

06/15

Question No 1

$$X = \bar{A} \cdot \bar{B} \cdot C + (A+B)$$

Truth Table and IC Diagram

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

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I C Diagram

$$X = \bar{A} \cdot \bar{B} \cdot C + (\bar{A} + \bar{B})$$

