



**EAST WEST UNIVERSITY**  
**Department of Computer Science and Engineering**  
**Fall 2021 Semester**  
**CSE345 Digital Logic Design, Section-2, Class Test-1**  
**Marks:10**  
**Time: 20 minutes**

ID#		Name	
-----	--	------	--

1. Construct truth table for the following function (Do not change the form of the given expression). [7]

$$F(A, B, C, D) = (A' + C)(B' + D) + (B'C + A)$$

2. Draw the logic diagram of the following expression (Do not change the form of the given expression). [3]

$$F(A, B, C, D) = \{B'C'(A' + D)\} + \{AC' + B'D'\}$$