## Information Technology University of the Punjab SE201 Digital Logic Design – Fall 2024 Quiz 1 – August 30, 2024

Name: Solution Time allowed: 5 minutes	Roll No.: Maximum Marks: 10
Simplify the following Boolean function "AB+[(B+C).(B)	BC)]" (3 marks) Distributive
a. A.B+C b. A.(B+C) c. C.(A+B)	(B+C).(BC) = (B.BC)+CC.BC, (B.B.C) + CC.B.C) Idempotent Law B.B=B and
B.(A+C)	$B \cdot C + B \cdot C = BC$ $AR + BC = BC$
a. A'+B'C' $A' \cdot A' \cdot B' + C'$ $A' \cdot B' + C'$	B(A+C). B(A+C).  De Morgan's Law
C. A'B'+A'C' = $(BC)'$	etre terms
The minimum number of 2 input AND gates used in	for constructing a variety
a. 2 b. 3 c. 4 d. 5	Lo F(Output)
<ol> <li>The order of evaluation in a Boolean expression is</li> <li>Parentheses 2) NOT 3) AND 4) OR</li> </ol>	
a. True b. False	5 lide#9 Lec#2

c. Invalid