

National University



of Computer & Emerging Sciences Peshawar Campus

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Student Name:		Roll No:

Program:CS 20ABCD Examination:MidTotal Marks:64 Weightage:30Semester:SPRING – 2021 Time Allowed:2:30 hourDate:Wednesday May 26th, 2021

Course: EE227 DIGITAL LOGIC DESIGN Instructor: Shakir

Question 1	Question 2	Total	Instructor Signature
20 minutes	20 minutes	120 minutes	
10	10	64	

NOTE: Attempt all questions. In case of an ambiguity in a question, make an assumption, write your assumption and carry on with the question.

CALCULATORS ARE NOT ALLOWED

Question No. 2 (10 marks) (Estimated time: 20 minutes)

Prove that NAND AND NOR are commutative but not associative using individual truth tables:

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