

National University of Computer and Emerging Sciences, Lahore Campus



Course: Theory of Automata-I
Program: BS (CS)
Duration: 20 Minutes
Paper Date:
Section:
Exam: Quiz 3

Course Code: CS301
Semester: Fall 2020
Total Marks: 10
Weight
Page(s): 1

Instruction/Notes: Attempt all questions on the question paper.

Name: _____ Roll Number: _____

1. [10]

Convert the following NFA-null (over the alphabet $\Sigma = \{0, 1\}$) to a DFA using the **subset construction method**. Label each state of the DFA appropriately to indicate which states of the NFA it corresponds to. Show complete working.

