National University of Computer and Emerging Sciences, Lahore Campus

Course:	**Theory of Automata-I**	**Course Code:**	CS301
Program:	**BS (CS)**	**Semester:**	**Fall 2020**
Duration:	**20 Minutes**	**Total Marks:**	**10**
Paper Date:		**Weight**	
Section:		**Page(s):**	**1**
Exam:	**Quiz 2**		

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

Name: _____   Roll Number: _____

1. [10]

Convert the following NFA null (over the alphabet Σ = {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.