WILL STREET, S

UNITED INTERNATIONAL UNIVERSITY

Department of Computer Science and Engineering (CSE)

Course Title: Theory of Computation Course Code: CSE 2233 Credit Hours: 3.0

Trimester & Year: Fall 2023 Section: F,G (A) MdMH

CT-02

Total Marks: 10 Time: 25 min

6

1. Convert the following ε -NFA to an equivalent DFA. (Remember to draw the state diagram of the DFA)

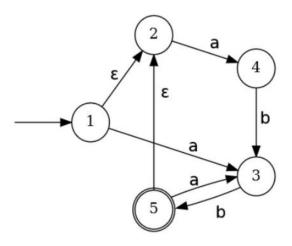


Figure 01: State Diagram of ε -NFA

2. Construct an NFA defined over alphabet $\Sigma = \{x, y, z\}$ that accepts all the strings of the following Language, L where,

 $L = \{w \mid w \text{ does not start with 'y', contains 'xyz' or 'yzx' and ends with 'yx' or 'yz'\}.$