

## Assignment # 01: Theory of Automata

Date: 12/06/23

Due

Total Marks: 10

Q1. Draw the DFA of the following Languages. Condition to construct DFA is that every DFA must be having minimum number of states.  $\Sigma = \{a, b, c\}$

a)  $L_1 = \{\text{All strings containing } acca \text{ as the substring}\}$

b)  $L_2 = \{\text{All strings containing no two consecutive c's}\}$

Q2. (A) Draw DFA of following Languages by using input  $\Sigma = \{0-9\}$ .

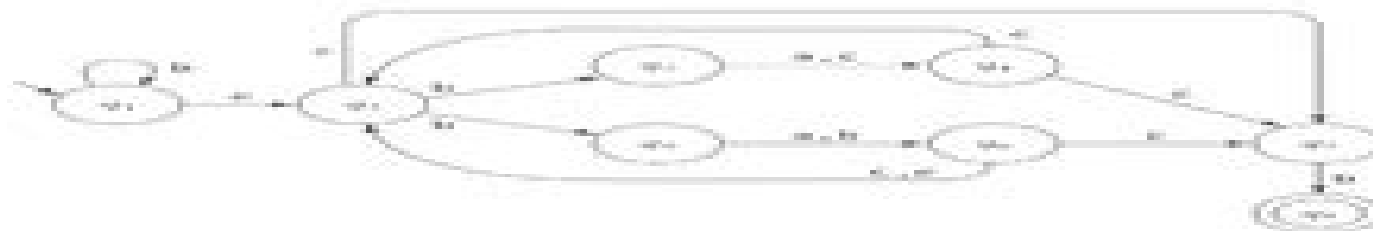
a)  $L = \{\text{All strings divisible by 2}\}$

b)  $L = \{\text{All strings divisible by 3}\}$

(B). Draw DFA and write Regular Expression of the following given below language.

$L = \{aa, ab, ba, ba, aaa, aab, bba, baa, bab, abba, abab, \dots\}$

Q3. Convert NFA into DFA.  $\Sigma = \{a, b, c\}$



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