Theory of Computation

1st mid

24 July , 2023

1.Write any four application of NFA & DFA [7]

2.Construct a DFA for the following language

L={w|w is a binary string that has been even number of 1s and even numbers of 0s} [5]

3.Construct a NFA for the following :Strings where the first sysmbol is present somewhere later on at least once. [5]

4.Write Bad case where states(DFA)>>states(NFA) describe with pigeonhole principle [7]