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V-SEMESTER
MID TERM EXAMINATION

Roll No...... B.Tech.(CO) Sept-2024

CO-303 THEORY OF COMPUTATION

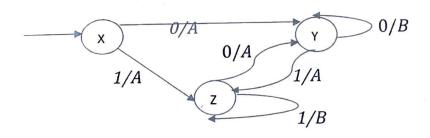
Time: 1:30 Hours Max. Marks: 25

Note: Attempt all questions. Assume suitable missing data, if any

Q.No. 1 Explain equivalence of two finite Automata with suitable example and Design a DFA for strings of 0's and 1's where all binary strings are divisible by 3.

Q.No. 2 [5] CO1

Construct a Moore machine equivalent to the following mealy machine



Q.No. 3
What is Arden's theorem? Find a regular expression (RE) corresponding to the following FA using Arden's theorem.

