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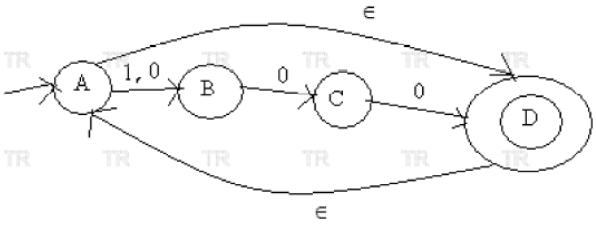
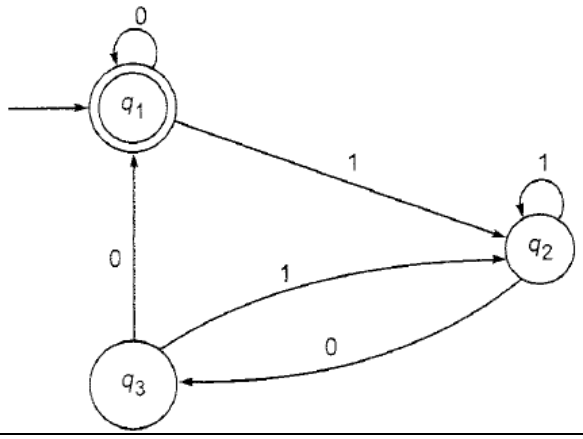
Tutorial – 1 – December 05, 2022

Programme	: **B.Tech – Computer Science and Engineering**	Semester	:	**Winter Semester 2022-23**	
Course	: **Theory of Computation and Compiler Design**	Code	:	**CSE2004**	
Faculty	: **Dr. Paras Jain**	Slot/Class No.	:	**C11+C12+C13/329**	
Time	: **45 Minutes**	Max. Marks	:	**10**	

Answer all the Questions

Q. No.	Question Description	Marks
1	Construct the DFA to accept set of strings of 0's and 1's that start and end with same symbol.	**3**
2	Build a NFA without ∈-moves equivalent to the following ∈-NFA. 	**4**
3	Construct a regular expression corresponding to the state diagram described by following finite automation 	**3**

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