**Quiz # 2 (Take Away Quiz for Regular and Self Support Classes)**

**Theory of Automata and Formal Languages**

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| Total Marks: 40 | Course Code: CS-3131 |

**Q1:** Extract regular expression using the state elimination method from the following DFA.

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Q2: Using equivalence of states method, minimize the following DFA.

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Q3: Design a PDA for the language 0n1n0n .

Q4: Draw a transition diagram for a TM with input alphabet {0, 1} that interprets the input string as the binary representation of a nonnegative integer and adds 1 to it.