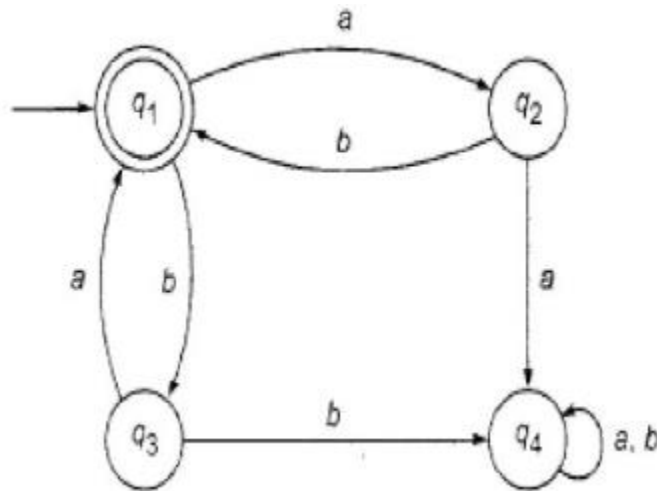# Dr. Shyama Prasad Mukherjee University, Ranchi
MSc. (IT)
Assignment Questions

Semester - IV
Subject - Automata Theory (ECMIT402)

1. Construct a DFA which accepts set of all string ending with '01' over $\sum = \{0, 1\}$. Also draw its transition table.

2. What is Regular Expression? Find Regular Expression of the following transition diagram:

3. What is Chomsky classification of Grammar? Explain with example.

4. Explain Turing machine. Design Turing machine for L= $\{0^n 1^n 2^n : n>=1\}$