Page No. Date: / CS 303 Assignment - 9 Tanusi Mittal 1901CS65 Que 1: $q_0 \rightarrow B, R$ $q_1 \rightarrow B, R$ M - { { 9. 9. 9. } , { 9. 63 . { 9. 63 , 8 , 9 . , 8 , 19 . } } Coverent State BBBBBBBBB $\frac{\beta \beta \beta \beta \beta \beta \beta \beta \beta \beta}{(a \rightarrow \beta, R)}$ B 3 | 3 | B | B | B | B | B BBBBBB The tuace is - quable + qubb + qub + q + for Also; sluing 5 = 65 The trace is 9065 1-9,5 1-9, 1-92

(b) The negular empression for the above twing machine is

and = L = {0ⁿ1ⁿ0ⁿ | n > 0}

(24) (0,75,6)

 $(Y \longrightarrow Y,R)$ $(Z \longrightarrow Z,R)$