CSE331

Automata & computability

Assignment:-1
section : 02
Part A (10-18)

submitted by,

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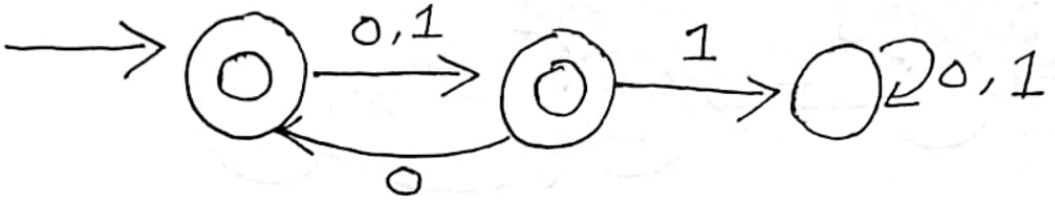
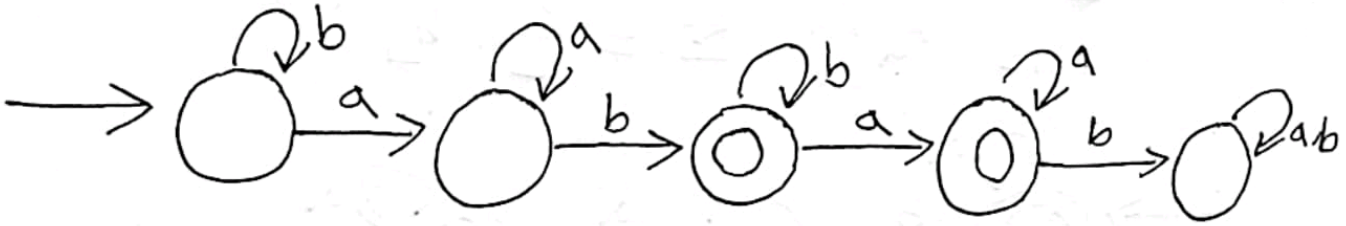
10. (b) {w has 0 in all even position}

$\Sigma = \{0, 1\}$

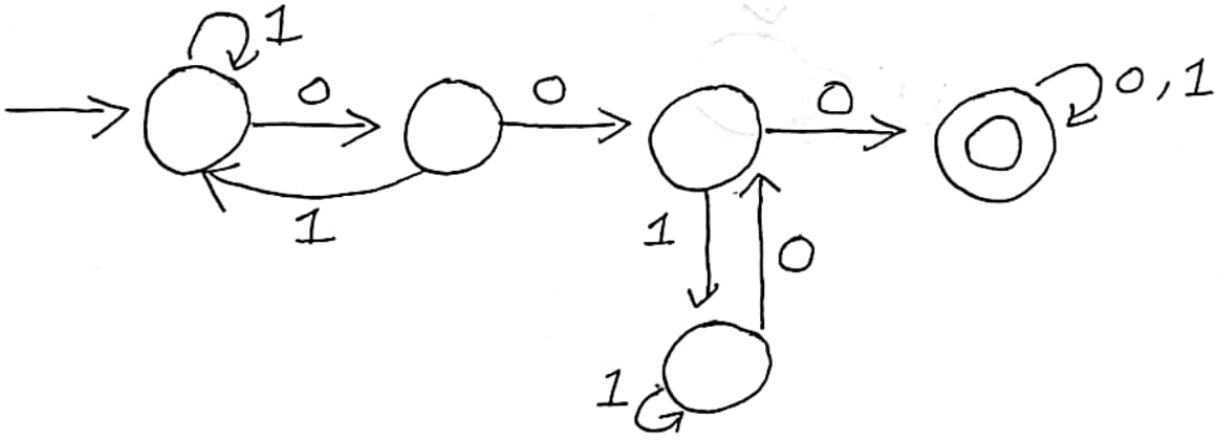


11. (a) DFA which accepts exactly one 'ab'

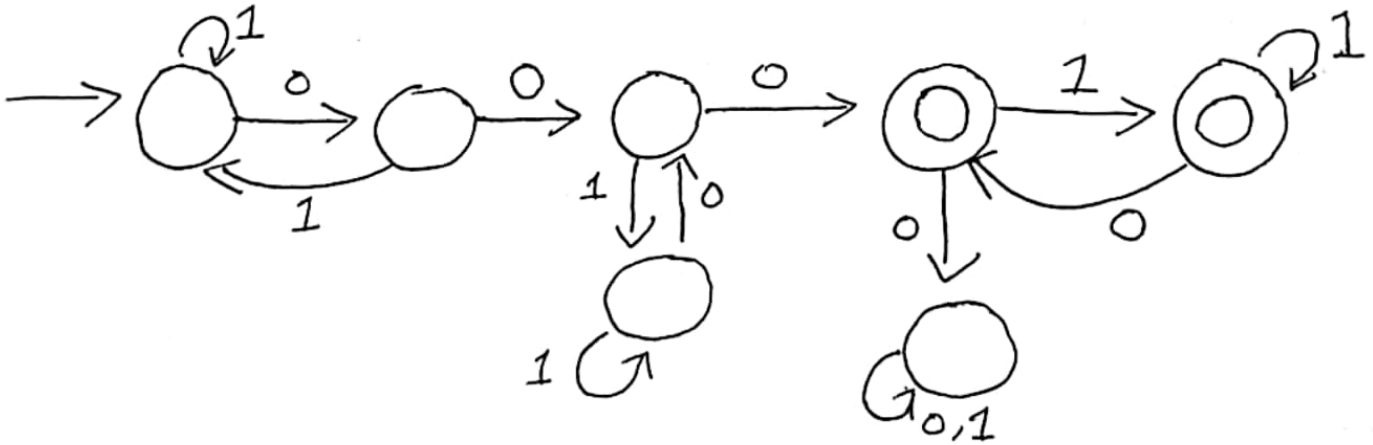
$\Sigma = \{a, b\}$



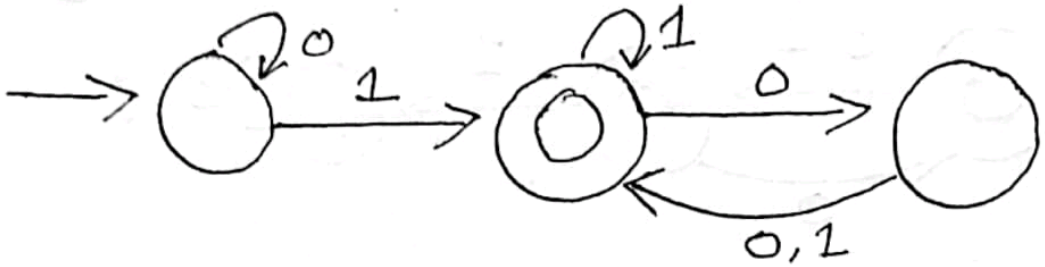
12. DFA which accepts atleast two 00. $\Sigma = \{0,1\}$



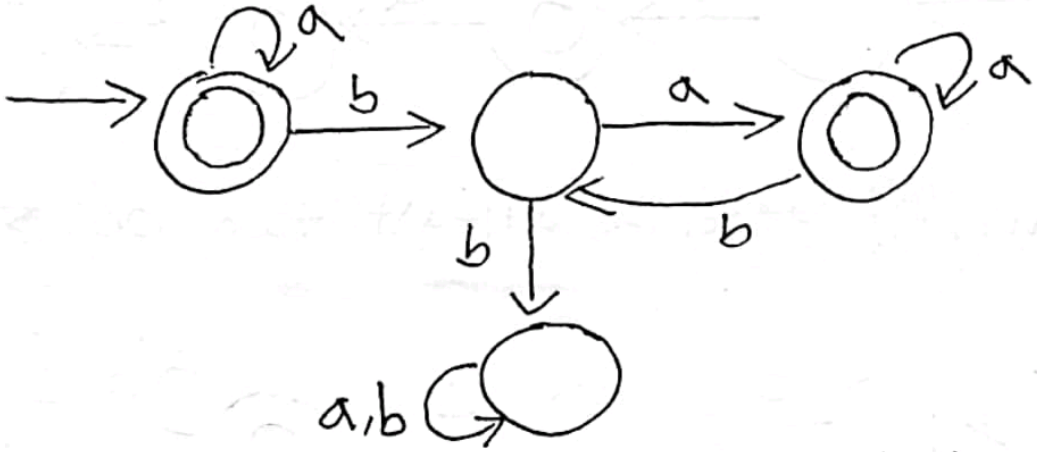
13 (a) DFA which accepts exactly two 00's. $\Sigma = \{0,1\}$



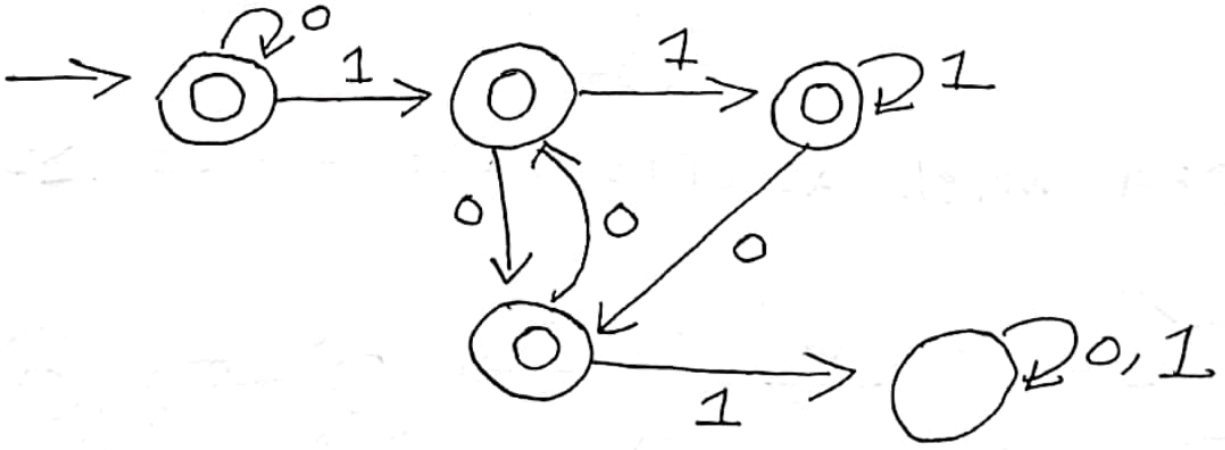
14. {An even number of 0's follow the last 1 in w} $\Sigma = \{0, 1\}$



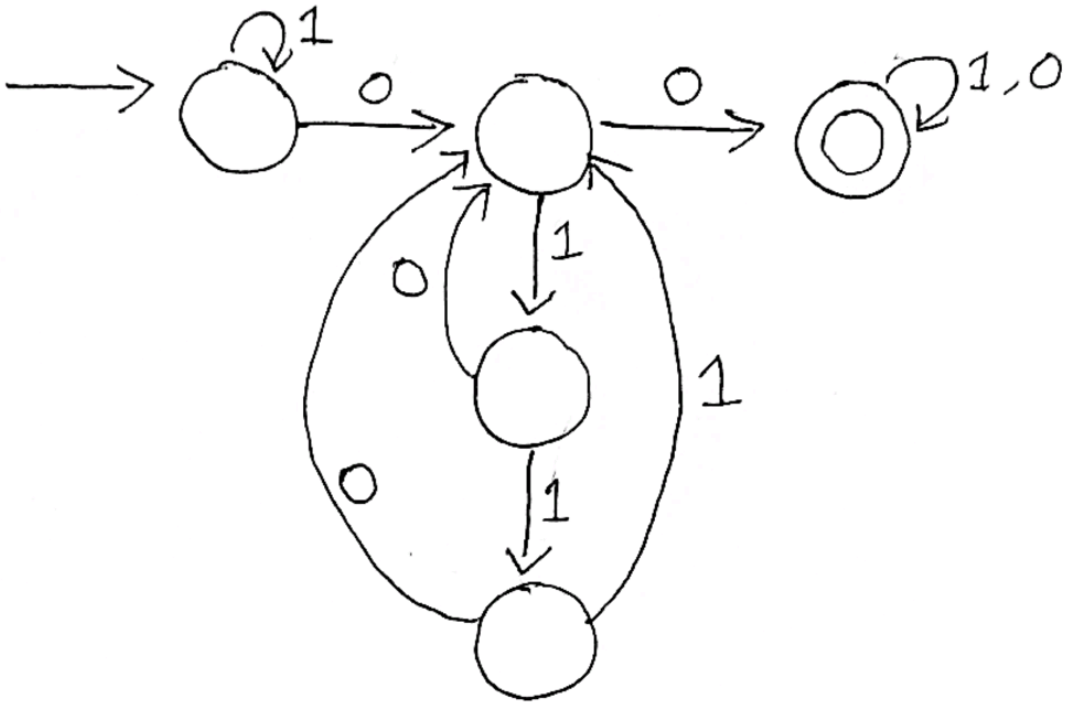
15. {w | each 'b' is followed by a at-least one 'a'} $\Sigma = \{a, b\}$



16. {Numbers of 0's between two successive 1's will be even} $\Sigma = \{0, 1\}$



17. (a) {w contains 01^m0 as a substring where m is divisible by 3.}



18. (a) $\{w \in \{0,1\}^* : w = 0^m 1^n$ where m and n both are odd.$\}$