



CT-02

Total Marks: 10

Time: 30 min

1. Convert the following NFA to an equivalent DFA. (Remember to draw the state diagram of the DFA) 6

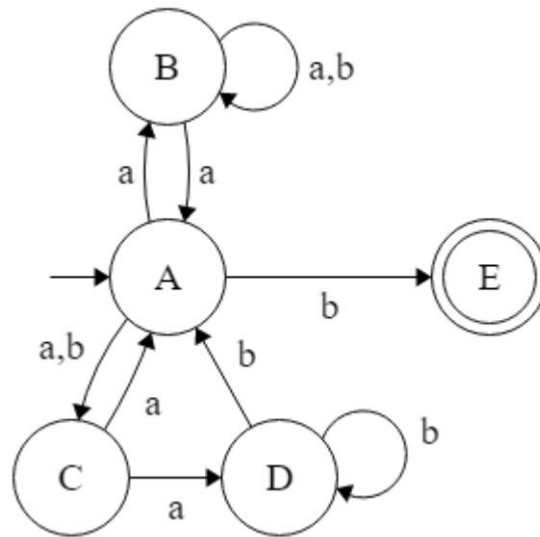


Figure 01: State Diagram of NFA

2. Construct an **NFA** defined over alphabet $\Sigma = \{0, a, b\}$ that accepts all the strings of the following Language, L where, **4**

$L = \{w \mid w \text{ starts with '0ab0' or 'b00a', contains 'b0a' or 'b00' and ends with 'b'}\}.$