

CS 302  
QUIZ 4

14 October, 2019

Duration : 15 minutes

*Do not forget to write your name on your paper !***QUESTION**

(a) (5 pts) Let  $A=(P, \Sigma, \delta_A, s, F_A)$  and  $B=(Q, \Sigma, \delta_B, t, F_B)$  be two given DFAs .

(i) Define the **equivalence** of two states  $p \in P$  and  $q \in Q$  shown  $p \equiv q$  ;

and (ii) define the **equivalence of the automata**  $A$  and  $B$  based on (i) shown  $A \equiv B$  .

(b) (5 pts) For the DFA  $A$  below find **equivalent states**, if any, using the **table filling algorithm**.

