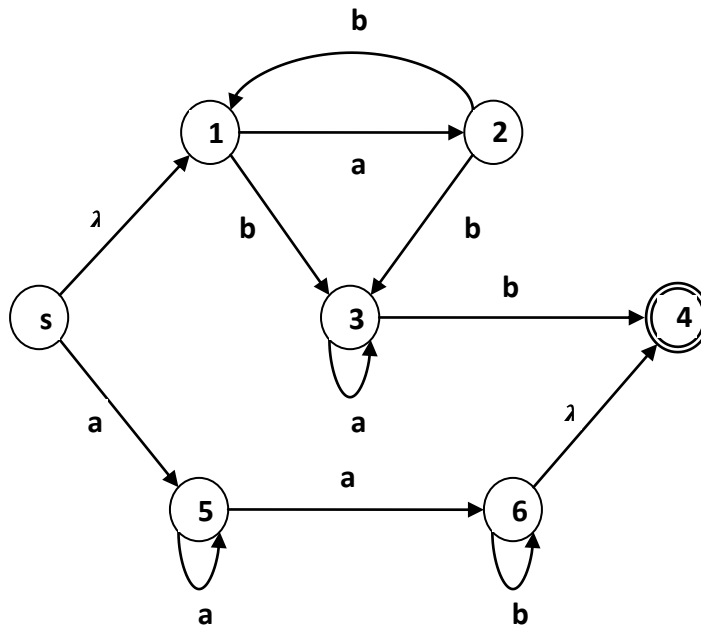


**CS-302 Theory of Computation
Assignment 5**

Name: _____

Consider the following nondeterministic finite state automaton, $N = (Q, \Sigma, \Delta, s, F)$.



1. Find the sequences of configurations of the automaton on the following and determine if the strings are accepted by

- *abb*

- *abbbb*

- *aabb*

2. Construct a deterministic finite state automaton that is equivalent to N . Show all of your work.