

CS-302 Theory of Computation
Assignment 14

Name: _____

1. Consider the following pushdown automaton

$((s, a, \lambda), (s, c))$

$((s, b, \lambda), (s, c))$

$((s, b, \lambda), (f, \lambda))$

$((f, a, c), (f, \lambda))$

$((f, b, c), (f, \lambda))$

where s is the initial state and f is the final state of the PDA.

- a) Show that the string $aababaaab$ is accepted by the pushdown automaton using the table below.

State	Unread Input	Stack	Transition Used

