

**University of Central Florida
School of Computer Science
COT 4210 Fall 2004**

**Prof. Rene Peralta
Homework 5**

Due date: Nov. 1, in class

1. Problem 2.23 from text.
2. Exercise 3.1c from text.
3. Exercise 3.19 from text.
4. Problem 3.5 from text.
5. Construct a TM to decide the language $L = \{a^i b^i a^i \mid i \geq 0\}$.
6. Does there exist a decidable language which is not recognizable by a pushdown automaton with two stacks? Justify your answer.