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.