

Print Family (i.e., Last) Name: _____

Print Given (i.e., First) Name: _____

For each question, write the answer next to the question. If you need to use scratch paper, use the scratch work area or the back of the quiz. Any scratch work in the answer spaces will be marked wrong and points will be deducted.

During this quiz it is prohibited to:

1. exchange information with any other person in any way, including by talking or exchanging papers or books;
2. use any electronic aid, including calculators;
3. use any books or notes;
4. leave the classroom before you complete and turn in your quiz.

I have read and understand all of the instructions above. On my honor, I pledge that I will not violate the provisions of the NJIT Academic Honor Code.

Signature and Date

1. Consider the language $A = \{ 0^i 1^j 2^k \mid i, j, k \geq 0 \text{ and } i + j = k \}$.

(a) Give a CFG for A .

(b) Give a PDA for A .

Draw PDA here:

Scratch work area