Test 1 – topics
Math 1165: Discrete Math

Format:
- True/False, Matching, Multiple Choice
- Free Response
- 1 proof question
- You may be asked to show your work
- Calculators are allowed

Textbook sections: 1.1 – 1.6, 2.1
- Questions will be similar to examples worked in class or homework questions

Topics:
- Sets
    - Definitions
    - Operations
    - Venn Diagrams
- Sequences
    - Know how to find the Recursive/Closed form
    - Characteristic Function
- Integers
    - gcd & lcm
    - Euclidean Algorithm & Division Algorithm
    - Changing bases
- Matrices
    - Definition of various types
    - Operations
- Structures
    - Binary & unary operator
    - Closure
- Truth Tables
    - Be able to create a small one

Proof Question:
The one proof question will be chosen from one of the following statements.
- De Morgan's Laws, p9
- Theorem 2, p21
- Theorem 6, p25