EXAM 1 GUIDE

COMP256 – COMPUTING ABSTRACTIONS

DICKINSON COLLEGE

EXAM 1: BASIC INFORMATION

- Format
  - 50 minutes, paper and pencil
  - Closed notes, closed book
  - 1 sheet of hand written notes
  - No calculators
- Coverage
  - Classes 1-12
  - Homework 1-5
  - Labs 1-5

- Provided
  - Boolean Identities
  - Table of needed powers of 2
  - ASCII Table (if necessary)
  - Machine Language Formats and Opcodes
  - Assembly Language Instructions and Examples

EXAM 1: CONTENT

- Question Types
  - 1 page T/F on vocabulary / concepts
    - See bold/italic words on on HW/Labs/Slides
  - Short answer / few sentences
    - Explain an idea / concept / idea / result / etc.
    - See HW / Labs for examples.
  - Problems
    - See homework for examples.

- Topics:
  - Hardware Abstractions:
    - Transistors, gates and circuits
    - Truth tables, Logic functions and logic simplification
    - Data representation
      - Integers / floating point / non-numeric
    - Stored Program Architecture
    - Micro-programs and machine language
    - Memory hierarchy and parallelism
  - Language Abstractions
    - High level / Low Level Languages / etc.
    - Compiled / Interpreted / etc
    - Simple assembly language