CSCE 222 (Carlisle), Discrete Structures for Computing Spring 2020 Homework 1

Type your name below the pledge to sign On my honor, as an Aggie, I have neither given nor received unauthorized aid on this academic work. **YOUR NAME HERE**

Instructions:

- The exercises are from the textbook. You are encouraged to work extra problems to aid in your learning; remember, the solutions to the odd-numbered problems are in the back of the book.
- Each exercise is worth 1 point.
- Grading will be based on correctness, clarity, and whether your solution is of the appropriate length.
- Always justify your answers.
- Don't forget to acknowledge all sources of assistance in the section below, and write up your solutions on your own.
- Turn in .pdf file to Gradescope by the start of class on Tuesday, January 21, 2020. It is simpler to put each problem on its own page using the LaTeX clearpage command.

Help Received:

• List any help received here, or "NONE".

LaTeX hints: Read this .tex file for some explanations that are in the comments.

Math formulas are enclosed in \$ signs, e.g., x + y = z becomes x + y = z.

Logical operators: \neg , \land , \lor , \oplus , \rightarrow , \leftrightarrow .

Here is a truth table using the "tabular" environment:

p	$\neg p$
T	F
F	Т

Exercises for Section 1.1:

8(e): ** YOUR ANSWER GOES HERE **

12(h): ** YOUR ANSWER GOES HERE **

34(f): ** YOUR ANSWER GOES HERE **

46(a,c,e): (1 pt each) ** YOUR ANSWER GOES HERE **

Exercises for Section 1.2:

10: ** YOUR ANSWER GOES HERE **

18(c): ** YOUR ANSWER GOES HERE **

38: ** YOUR ANSWER GOES HERE **

44(a): ** YOUR ANSWER GOES HERE **

Exercises for Section 1.3:

8(c) ** YOUR ANSWER GOES HERE **

10(c) ** YOUR ANSWER GOES HERE **

20 ** YOUR ANSWER GOES HERE **

Exercises for Section 1.4:

10(e): ** YOUR ANSWER GOES HERE **

12(g): ** YOUR ANSWER GOES HERE **

42(b): ** YOUR ANSWER GOES HERE **

46: ** YOUR ANSWER GOES HERE **

Exercises for Section 1.5:

16(e): ** YOUR ANSWER GOES HERE **

32(d): ** YOUR ANSWER GOES HERE **

44: ** YOUR ANSWER GOES HERE **