Homework #1 (100 pts) Print and submit hard copy

1) Which of the following options is a high-level language? (5 pts)
   a. x86 assembly
   b. C++
   c. machine code

2) Which of the following options is a low-level language? (5 pts)
   a. x86 assembly
   b. C++
   c. machine code

3) Describe the difference between primary and secondary memory. (10 pts)

4) Describe Moore’s Law. (10 pts)

5) Given the following logic gate circuit:

   a. Create the corresponding truth table. (10 pts)

   b. Write the corresponding Boolean expression. (10 pts)
6) Given the following Boolean expression:

\[ D = (A + B) \land (\neg A \land C) \]

a. Draw the corresponding logic gate circuit. (10 pts)

b. Create the corresponding truth table. (10 pts)
7) Given the following logic gate circuit:

a. Create the corresponding truth table. (20 pts)

b. Write the corresponding Boolean expression. (10 pts)