Your Name Here:

Each question is worth 2 points. 2 points will be awarded for correct answers. If you were on the right track but got the wrong answer I will award you 1 point.

A physical copy of this quiz must be turned in to me at the start of class on 9/10.

For each of the following strings of characters:

- a. Prove that it is a sentence of PL.
- b. Identify its major operator.
- 1. $((A \lor \neg B) \supset \neg(A \supset B))$

PL. When doing so, make use of the

following translation key.

Translate the following English

language sentences into sentences of

- A = The computer is broken.
- B = The mechanic fixed the computer.
- C = Someone called the mechanic.
- 4. The computer is not broken, if the mechanic fixed the computer.

2. (¬¬A ∨ B)

5. Either someone called the mechanic and the mechanic fixed the computer, or the computer is broken.

3. ¬(A ∨ (B ∧ C))

If the computer is broken but someone called the mechanic, then the mechanic did not fix the computer.