# Week 4 Quiz

**Read the questions carefully and check exactly ONE option**

\* This form will record your name, please fill your name.

[                                                                    ]

1. **Grammar E -> T E', E' -> +T E' | ε, T -> F T',T' -> *F T' | ε, F -> id | (E) is** (2 Points)

   ◯  Ambiguous

   ◯  Depends on given string

   ◯  Ambiguous for certain pair of terminal

   ◯  Unambiguous   ✓

2. **Given the following expression grammar:**
   **E -> E * F | F + E | F**
   **F -> F - F | id**
   **Which of the following is true?**  (2 Points)

   ◯  *has higher precedence than +

   ◯  – has higher precedence than *

   ◯  + and - have same precedence

   ◯  + has higher precedence than *

3. **Which of the following systems describes syntax of a programming language?** (2 Points)

  ○  Linear bounded automaton

  ○  Finite automaton

  ○  Syntax directed definition    **V**

  ○  Generative grammar

4. **Consider the following context free grammar:**
   **list → ids;**
   **ids → id,ids | id**
   **Which of the following is a sentential form for this language?**
      (2 Points)

  ○  id,id,ids;

  ○  ids,ids;

  ○  ids,id,id;

  ○  all of the above

5. **A grammar that produces more than one parse tree for some sentence is called**
      (2 Points)

  ○  Ambiguous    **V**

  ○  Regular

  ○  Unambiguous

  ○  None of these