Concepts of PDAs and Conversion from PDAs to CFGs

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

1. A PDA accepts a string when:
   (1 Point)

   - ◯ after consuming all the symbols of the string, the PDA is in a final state or its stack is empty
   - ◯ after consuming all the symbols of the string, the PDA is in a final state and the PDA accepts by final state, or the stack of the PDA is empty and the PDA accepts by empty stack

2. A PDA is always a non-deterministic automaton
   (1 Point)

   - ◯ TRUE
   - ◯ FALSE

3. Any non-deterministic PDA can be converted to a deterministic PDA
(1 Point)

- ◯ TRUE
- ◯ FALSE

4. It is possible to automatically convert any CFG to a PDA
(1 Point)

- ◯ TRUE
- ◯ FALSE

5. The method explained in the Lecture to convert a CFG to a PDA implies:
(1 Point)

- ◯ a PDA with one state and accepting by empty stack
- ◯ a PDA with one state and accepting by final state

6. If a CFG is ambiguous, the automatic conversion of the CFG to a PDA always results in a non-deterministic PDA:
(1 Point)

- ◯ TRUE
- ◯ FALSE