**CS 4250 Programming Languages Fall 2018**

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**KEY TO QUIZ #2 [9 points]**

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1. Match each term from the left column with its definition from the given list:

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|  | ***Number*** |  |
| Lexeme | **6** | 1. The form of expressions, statements and programming units |
| Grammar | **4** | 2. A sequence of applications of the grammar rules |
| Start symbol | **7** | 3. A lexeme or token |
| Metalanguage | **8** | 4. The formal language-generation mechanism |
| Syntax of a programming language | **1** | 5. A category of language’s lexemes. |
| Semantics of a programming language | **9** | 6. The lowest-level syntactical unit |
| Derivation | **2** | 7. A special nonterminal symbol in the beginning of a derivation |
| Terminal symbol | **3** | 8. A language that is used to describe another language. |
| Token | **5** | 9. The meaning of expressions, statements and programming units |

1. Fill in the blanks:
2. A grammar that generates a sequential form, for which there are two or more distinct

parse trees is said to be *ambiguous.*

1. Hierarchical structures that graphically illustrate syntactic structure of the sentences of

the language are called *parse trees*.

1. When a grammar has its LHS also appearing at the beginning of its RHS, the rule is said

to be *left recursive*.