

CS323 2024F Quiz #3

1. Your student ID: *

2. Which one of the following statements about syntax-directed definitions is correct? *

- ☐ In syntax-directed definitions, one can only define synthesized attributes.
- ☒ Synthesized attributes can be evaluated during a bottom-up traversal of a parse tree.
- ☐ An attribute in a syntax-directed definition can be both synthesized and inherited.
- ☐ Syntax-directed definitions explicitly specify the evaluation order of attributes.

3. In a syntax-directed translation scheme, semantic actions can appear anywhere within a production body. Is the statement correct? *

- ☒ Yes, it is correct.
- ☐ No, it is incorrect.
- ☐ It depends on the parsing method. ____

4. It is possible to implement any syntax-directed translation scheme during parsing. Is the statement correct? *

- ☐ Yes, it is correct.
- ☒ No, it is incorrect.
- ☐ It depends on the parsing method.

5. Which one of the following statements about dependency graph is incorrect? *

- ☐ If there is a cycle in a dependency graph, we cannot find an order to compute the value of all attributes for the corresponding syntax-directed definition.
- ☒ Attribute values can be computed by a preorder traversal of the dependency graph.
- ☐ Dependency graphs for L-attributed SDDs cannot have cycles.
- ☐ Dependency graphs for S-attributed SDDs cannot have cycles.

6. Which one of the following representations of three-address instructions is not suitable for optimizing compilers that may swap instructions? *

- ☐ Quadruples
- ☒ Triples
- ☐ Indirect triples

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