

ID: _____

ICS 313-02(002)

Dr. Mamdouh Najjar

Quiz # 6

Name: _____

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Question 1:

(3 points)

Mark as True or False:

- In implementing dynamic scoping, the primary difference between binding and access is that deep and shallow binding result in different semantics; deep and shallow access do not.
- An encapsulation is a grouping of subprograms and the data they manipulate.
- Objects of a type that is declared private have no built-in operations.

Question 2:

(5 points)

What are the two important differences between the deep access method for non-local access in dynamic-scoped language and static chain method for static-scoped languages?

Question 3:

(4 points)

Ada provides encapsulation facilities that can be used to simulate abstract data types, including the ability to hide their representations.

Complete the following statements:

- The encapsulation constructs in Ada are called _____.
- Packages can have two parts, each of which is also a package. These are called the _____, which provides the interface of the encapsulation, and the _____, which provides the implementation of the entities named in the specification.
- Ada implementation for information hiding is by _____ types.