

CS383 Programming Languages

Quiz 12

1. In Java, if we want to define a method which contains no code beyond its signature and we want the subclass to implement this method, which key word can we use ?

- a. Final
- b. Static
- c. Abstract
- d. Void

2. Which one is **not** a feature of object-oriented programming?

a. Encapsulation

b. Interface

c. Inheritance

d. Polymorphism

3. What is **wrong** about class?

- a. **Class is the struct in C**
- b. Class is a template to create an object
- c. Class is an implementation of abstract data type (ADT)
- d. Class is a unified description of several objects with common behavior

4. Class O has a protected method F, class P is a subclass of O. O1 and P1 are objects of O and P. Which one is right?

- a. O1 and P1 can access F
- b. O1 and P1 can't access F
- c. Only O1 can access F
- d. Only P1 can access F

5. C is a subclass of B. Which is wrong about inheritance?

- a. C can access to all the methods in B.
- b. C has all the attributes of B
- c. C can override virtual method in B
- d. A class can have multi subclasses

6. An interface encapsulates a collection of _____ and _____ method signatures.

- a. Constants, non-abstract
- b. Variables, non-abstract
- c. Constants, abstract
- d. Variables, abstract

7. Does Interface have a constructor?

a. yes

b. no

8. If we use hash table to implement VMT, what can be choose as the key of hash table?

Function name or signature

9. Which is **wrong** about Smalltalk?

- a. Pure object-oriented language
- b. With IDE
- c. Grammar is simple
- d. **No assignment operation**

10. What is polymorphism in OO language?

- a. One class can have several subclasses.
- b. An object can have different forms in different running environment
- c. A call is binding to one of several different implementations of a method in an inheritance hierarchy
- a. Allows a class to be a subclass of more than one classes.