Assignment 0

Due on 2020-09-14, 23:59 IST.

1. Which one of the following techniques involves packing of data members into a single unit?
   a. Polymorphism
   b. Abstraction
   c. Encapsulation
   d. Inheritance

2. Which one of the following is an important advantage of data hiding?
   a. Low cohesion
   b. High coupling
   c. Lost for lost
   d. Low coupling

3. Which one of the following is not a characteristic of an object-oriented program?
   a. It has well-defined boundaries between objects
   b. It reuses the amount of code which has to be written
   c. It creates unique data structures in the class model
   d. It describes objects up into the classes

4. Which one of the following is not true about inheritance relation between two classes?
   a. It is a way of reusability.
   b. Aggregation of information
   c. Generalization and specialization
   d. Polymorphism

5. Which one of the following characteristics of a class implies that it might react differently to similar messages?
   a. Encapsulation
   b. Abstractions
   c. Informative hiding
   d. Abstraction

6. Which of the following can be said about an abstract data type (ADT)?
   a. It is a precursor for an abstract class
   b. A data type that cannot be implemented
   c. A data type that can only be used through the operations defined on it
   d. It is more as a collection of data items

7. Which one of the following indicates a kind of relationship between the classes in an object-oriented program?
   a. Association
   b. Abstraction
   c. Dependency
   d. Inheritance

8. Collectively, all classes is a qualitative indication of which one of the characteristics?
   a. Ability to complete a computation in a timely manner
   b. It supported method to reduce coupling
   c. It is connected to only a few modules
   d. It can be tested completely and efficiently

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   c. Dependency
   d. Inheritance

10. Which one of the following is true of a design solution that involves several deep inheritance hierarchies?
   a. It is a sign of a good design as it increases reuse
   b. It is a sign of a good design as it reduces the complexity and maintains classes of the subclass
   c. It is a sign of a bad design as it increases polymorphic bindings
   d. It is a sign of bad design as it breaks encapsulation