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Grade 4.00 out of 10.00 (40%)

Question 1

Correct

Mark 1.00 out of 1.00

Which of the following choices of Observer, Iterator, Decorator is the best?

Select one:

- ☐ a. Notify multiple object about the changes of an object: Observer
- ☐ b. Provide a way to access the elements of an aggregate object sequentially without exposing its underlying representation: Iterator
- ☒ c. The choices in all of the other answers are all good. ✓
- ☐ d. Allow to extend functions of a class at run-time: Decorator

The correct answer is: The choices in all of the other answers are all good.

Question 2

Incorrect

Mark 0.00 out of 1.00

Which of the following choices of Client-server, Facade, Iterator is the best?

Select one:

- ☐ a. Provide a way to access the elements of an aggregate object sequentially without exposing its underlying representation: Iterator
- ☐ b. Notify multiple object about the changes of an object: Client-server
- ☒ c. The choices in all of the other answers are all good. ✗
- ☐ d. Extend the (module/component) interface of a developing object: Facade

The correct answer is: Provide a way to access the elements of an aggregate object sequentially without exposing its underlying representation: Iterator

Question 3

Correct

Mark 1.00 out of 1.00

Which of the following choices of MVC, Adapter is the best?

Select one:

- ☐ a. Separate models, views, and controllers: MVC (model-view-controller)
- ☐ b. Change the name or make new interface for an old object: Adapter
- ☐ c. Make new (composite) method from incompatible methods: Adapter
- ☒ d. The choices in all of the other answers are all good. ✓

The correct answer is: The choices in all of the other answers are all good.

Question 4

Correct

Mark 1.00 out of 1.00

Which of the following in software detail design is correct?

Select one:

- ☐ a. There may be more than one view class controlled by a single controller class in MVC model.
- ☐ b. In working with data, we need to design (describe) data loading/storing operators/methods.
- ☐ c. In separating model-view-controller (as in MVC model), all classes for model, view and controller shall be designed (described).
- ☒ d. All the other answers are correct. ✓

The correct answer is: All the other answers are correct.

Question 5

Incorrect

Mark 0.00 out of 1.00

The design pattern Adapter ____ .

Select one:

- ☒ a. All of the other answers are correct. ✗
- ☐ b. Reduce dependencies of outside code on the inner workings of a library,
- ☐ c. Adapts the interface of an (already existing) class without changing it.
- ☐ d. Wrap a poorly designed collection of APIs with a single well-designed API.

The correct answer is: Adapts the interface of an (already existing) class without changing it.

Question 6

Incorrect

Mark 0.00 out of 1.00

The design pattern Decorator ____.

Select one:

- ☒ a. All of the other answers are correct. ❌
- ☐ b. Responsibilities should be added to (and removed from) an object dynamically at run-time.
- ☐ c. Ensures that a class has only one instance and allows the instance of the class be accessed easily.
- ☐ d. Reduce dependencies of outside code on the inner workings of a library,

The correct answer is: Responsibilities should be added to (and removed from) an object dynamically at run-time.

Question 7

Incorrect

Mark 0.00 out of 1.00

The design pattern Singleton ____.

Select one:

- ☐ a. Ensures that a class has only one instance and allows the instance of the class be accessed easily.
- ☒ b. All of the other answers are correct. ❌
- ☐ c. Reduce dependencies of outside code on the inner workings of a library,
- ☐ d. Wrap a poorly designed collection of APIs with a single well-designed API.

The correct answer is: Ensures that a class has only one instance and allows the instance of the class be accessed easily.

Question 8

Incorrect

Mark 0.00 out of 1.00

Which of the following choices of Observer, Facade, Decorator is the best?

Select one:

- ☐ a. Extend the (module/component) interface of a developing object: Facade
- ☒ b. The choices in all of the other answers are all good. ❌
- ☐ c. Notify multiple object about the changes of an object: Observer
- ☐ d. Separate models, views, and controllers: Decorator

The correct answer is: Notify multiple object about the changes of an object: Observer

Question 9

Incorrect

Mark 0.00 out of 1.00

Which of the following choices of Decorator, Facade, Interpreter is the best?

Select one:

- ☐ a. Reduce the (module/component) interface of a developing object: Facade
- ☐ b. Separate data and controller: Decorator
- ☒ c. The choices in all of the other answers are all good. ✖
- ☐ d. Provide a way to access the elements of an aggregate object sequentially without exposing its underlying representation: Interpreter

The correct answer is: Reduce the (module/component) interface of a developing object: Facade

Question 10

Correct

Mark 1.00 out of 1.00

The design pattern Facade ____.

Select one:

- ☐ a. Wrap a poorly designed collection of APIs with a single well-designed API.
- ☐ b. Reduce dependencies of outside code on the inner workings of a library, since most code uses the Facade, thus allowing more flexibility in developing the system.
- ☒ c. All of the other answers are correct. ✔
- ☐ d. Provides a simplified interface to a larger body of code, such as a class library.

The correct answer is: All of the other answers are correct.

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