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| **Status** | Finished |
| **Started** | Thursday, 14 November 2024, 9:18 PM |
| **Completed** | Thursday, 14 November 2024, 9:20 PM |
| **Duration** | 1 min 30 secs |
| **Grade** | **10.00** out of 10.00 (**100**%) |

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

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

Question **2**

Correct

Mark 1.00 out of 1.00

The design pattern Facade ___ .

Select one:

- ○ a.   All of the other answers are correct. ✔
- ○ 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.   Wrap a poorly designed collection of APIs with a single well-designed API.
- ○ 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.

**Question 3**

Correct

Mark 1.00 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.  Reduce dependencies of outside code on the inner workings of a library,
- ○ c.  All of the other answers are correct.
- ○ 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 4**

Correct

Mark 1.00 out of 1.00

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

Select one:

- ○ a.  Separate models, views, and controllers: Decorator
- ● b.  Notify multiple object about the changes of an object: Observer ✔
- ○ 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: Notify multiple object about the changes of an object: Observer

**Question 5**

Correct

Mark 1.00 out of 1.00

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

Select one:

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

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

**Question 6**

Correct

Mark 1.00 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.  The choices in all of the other answers are all good.
- c.  Notify multiple object about the changes of an object: Client-server
- 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 7**

Correct

Mark 1.00 out of 1.00

The design pattern Adapter ___ .

Select one:

- a.  Adapts the interface of an (already existing) class without changing it.  ✓
- b.  Reduce dependencies of outside code on the inner workings of a library,
- c.  All of the other answers are correct.
- 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 8**

Correct

Mark 1.00 out of 1.00

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

Select one:

- ○ a. Make new (composite) method from incompatible methods: Adapter
- ○ b. Separate models, views, and controllers: MVC (model-view-controller)
- ○ c. Change the name or make new interface for an old object: 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 9**

Correct

Mark 1.00 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 10**

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 separating model-view-controller (as in MVC model), all classes for model, view and controller shall be designed (described).
- ◉ c. All the other answers are correct. ✔
- ○ d. In working with data, we need to design (describe) data loading/storing operators/methods.

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