Started on	Monday, 20 September 2021, 10:13 AM
State	Finished
Completed on	Saturday, 18 December 2021, 1:54 PM
Time taken	89 days 4 hours
Grade	**6.00** out of 6.00 (**100**%)

Question **1**

Correct

Mark 1.00 out of 1.00

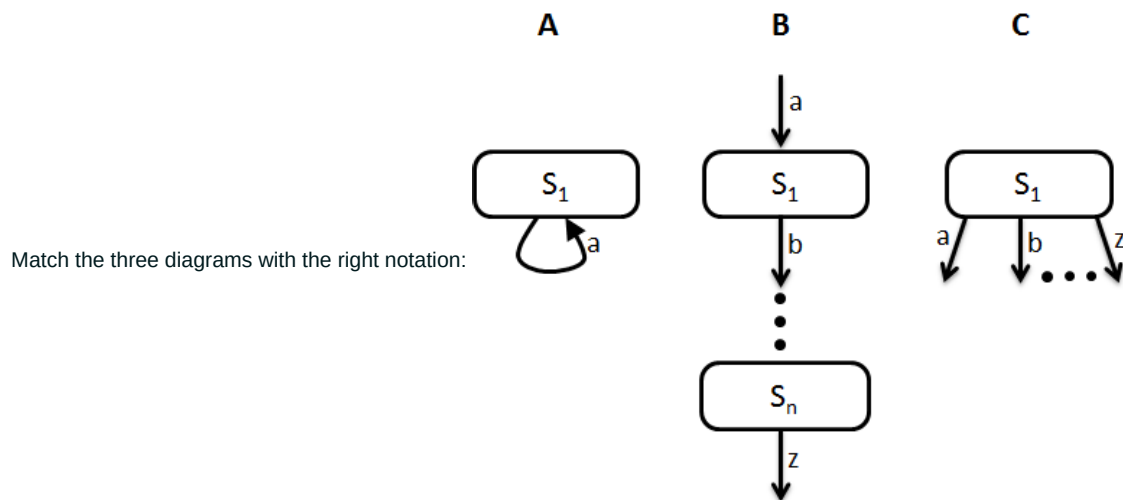A behavioral pattern:

Select one or more:

- ☐ a. captures the dynamic character of the application domain
- ☐ b. describes event traces for specific objects
- ☑ c. captures the dynamic character of the problem domain ✔
- ☑ d. describes possible event traces for objects of a class ✔
- ☐ e. describes the use of the target system

The correct answers are: describes possible event traces for objects of a class, captures the dynamic character of the problem domain

Question **2**

Correct

Mark 1.00 out of 1.00

Match the three diagrams with the right notation:

A | Iteration | ✔
B | Sequence | ✔
C | Selection | ✔

The correct answer is: A → Iteration, B → Sequence, C → Selection

Question **3**

Correct

Mark 1.00 out of 1.00

Which of these statements are correct?

Select one or more:

☐ a. When an event occurs zero or more times it is called a cycle

☑ b. When events in a set occur one by one it is called a sequence ✔

☑ c. When an event occurs zero or more times it is called an iteration ✔

☑ d. When exactly one of a set of events occur it is called a selection ✔

☐ e. When exactly one of a set of events occur it is called a sequence

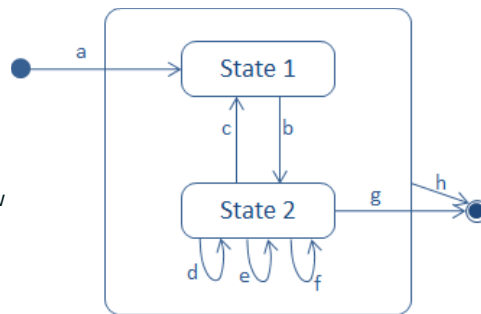☐ f. When events in a set occur one after one it is called a procedure

The correct answers are: When an event occurs zero or more times it is called an iteration, When exactly one of a set of events occur it is called a selection, When events in a set occur one by one it is called a sequence

Question **4**

Correct

Mark 1.00 out of 1.00

Choose the legal paths in the statechart diagram shown below

Select one or more:

☑ a.   abh ✔

☑ b.   abfffeedg ✔

☑ c.   abcbdddch ✔

☐ d.   acbddffeg

☑ e.   abdddeeeefffg ✔

☐ f.   abcfeg

☐ g.   abcbceeffbh

☐ h.   ahgfedcb

The correct answers are: abcbdddch, abdddeeeefffg, abh, abfffeedg

Question **5**

Correct

Mark 1.00 out of 1.00

Which of these statements are true for the Stepwise Relation Pattern?

Select one or more:

☐ a.   Aggregation and generalization are used as the structures in the generic pattern

☐ b.   It describes how a whole changes as its parts become active

☑ c.   Aggregation and association are used as the structures in the generic pattern ✔

☑ d.   It describes how elements in a hierarchy are related in a sequential manner ✔

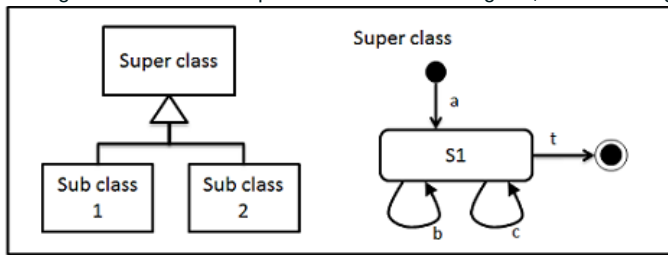☐ e.   Association and generalization are used as the structures in the generic pattern

The correct answers are: It describes how elements in a hierarchy are related in a sequential manner, Aggregation and association are used as the structures in the generic pattern
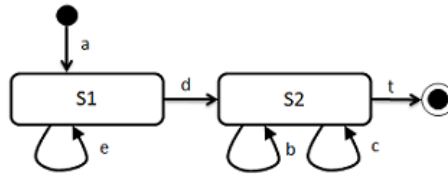
Question **6**

Correct

Mark 1.00 out of 1.00

Given the class diagram and behavioral pattern shown in the diagram; which of the given solutions is a legal behavioral pattern for sub
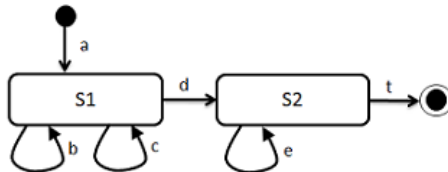

class 1?

Select one:

- ○ a. Solution A
- ⦿ b. Solution B ✔

The correct answer is: Solution B

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