

Unit 8 - Week 6 :

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Assignment 6

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2020-10-28, 23:59 IST.

- 1) How is object creation through call to the **new** method in Java represented on a UML sequence diagram?
- a. Stereotyping asynchronous message send symbol with new

b. Stereotyping synchronous message send symbol with new

c. Stereotyping asynchronous signal send symbol with create

d. Annotating synchronous message send symbol with create

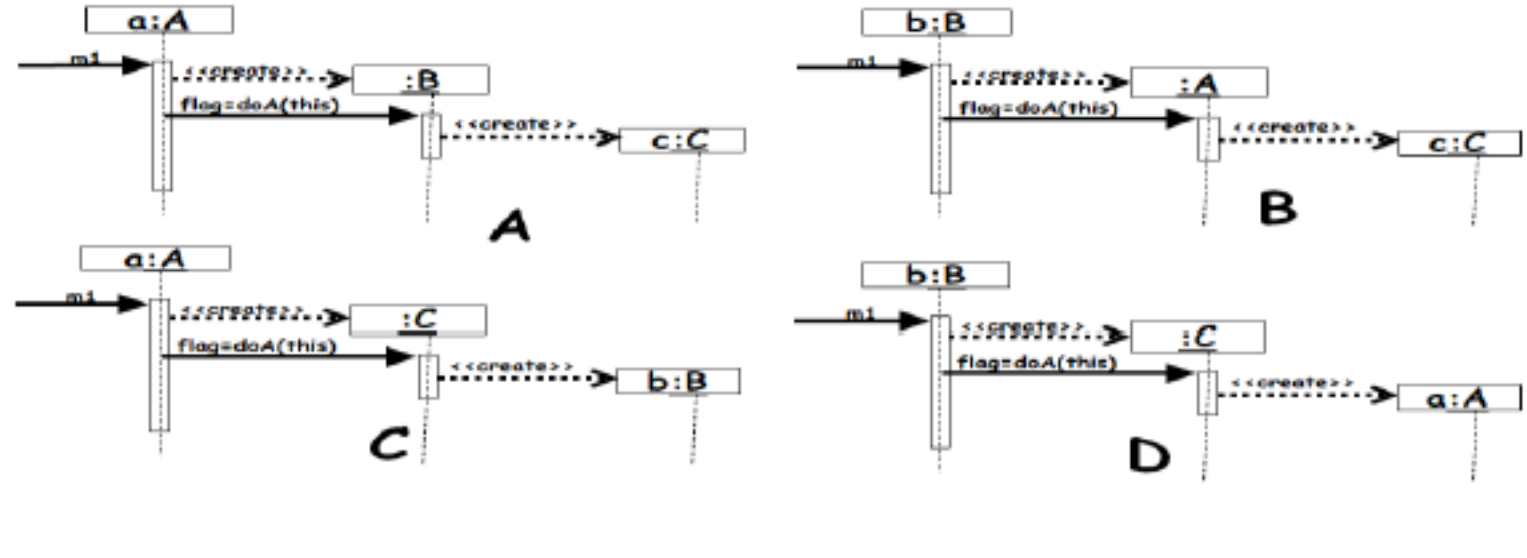
1 point

- a.
- b.
- c.
- d.

No, the answer is incorrect.
Score: 0
Accepted Answers:
c.

- 2) Consider the following Java code.
- ```
public class B {
 int doA(A a) {
 int flag;
 C c = new C();
 return flag;
 }
}
```

Which one of the following sequence diagrams corresponds to the given Java code for class B?



- a. A
- b. B
- c. C
- d. D

- a.
- b.
- c.
- d.

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
a.

- 3) Consider the following sequence diagram for the **borrow book** use case.
- 

Based on the sequence diagram, which methods will get allocated to the **LibraryMember** class.

- a. **borrow**
- b. **borrowBook** and **canBorrow**
- c. **borrowBook** and **borrow**
- d. **borrow** and **canBorrow**

- a.
- b.
- c.
- d.

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
b.

- 4) Consider the following sequence diagram for a use case named order.
- 

Which methods should be supported by the **Cart** class, as can be inferred from the given sequence diagram?

- a. **addItem, reserveItem, processInventory**
- b. **addItem, checkout, processOrder**
- c. **reserveItem, adjustInventory**
- d. **checkout, processOrder, adjustInventory, confirmOrder**

- a.
- b.
- c.
- d.

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
b.

- 5) Consider the following fragment of an activity diagram.
- 

- Which one of the following is implied by the given segment of the activity diagram?
- a. Both the verify order and the verify customer activities must complete, before accept order activity can start

b. Any of verify order and the verify customer activities must complete, before accept order activity can start

c. Verify order activity must complete, before any of verify customer and the accept order activities can start.

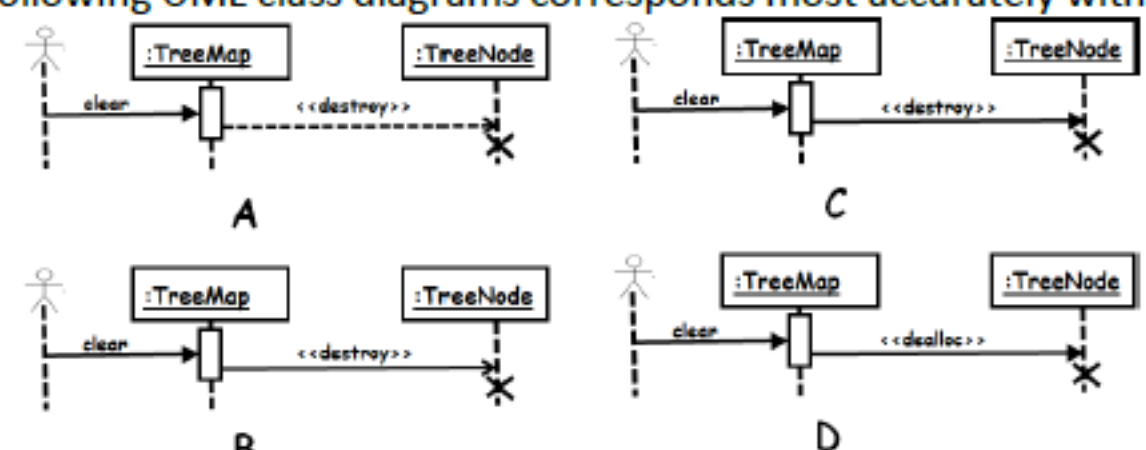
d. Verify order activity must complete, before both verify customer and the accept order activity can start.

- a.
- b.
- c.
- d.

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
a.

- 6) Consider the following Java code.
- ```
Public class TreeMap{  
    private TreeNode t;  
    public void clear(){  
        t=null;  
    }  
}
```

Which one of the following UML class diagrams corresponds most accurately with the given code?



- a. A
- b. B
- c. C
- d. D

- a.
- b.
- c.
- d.

No, the answer is incorrect.
Score: 0
Accepted Answers:
a.

- 7) Which one of the following is FALSE concerning the swim lanes in an UML activity diagram?
- a. Swim lanes are used to represent who performs which activities.

b. Each action is assigned to one swim lane.

c. Activity flows can cross lanes.

d. Relative ordering of swim lanes has semantic significance

- a.
- b.
- c.
- d.

No, the answer is incorrect.
Score: 0
Accepted Answers:
d.

- 8) Consider the following activity diagram.
-

- Which one of the following is FALSE regarding the activity diagram.
- a. Order is an object whose state changes with activity flow

b. Solid arrows in the diagram are transitions, and dotted arrows are pseudo transitions

c. The only activity performed by Stockroom is **PackOrder**

d. The customer is both the originator and terminator of the sequence of activities.

- a.
- b.
- c.
- d.

No, the answer is incorrect.
Score: 0
Accepted Answers:
b.

- 9) Consider the following fragment of an activity diagram.
-

Based on the semantics of the diagram, which one of the following cannot be considered to be TRUE.

- a. Receive payment is a signal received from an external process
- b. Receive payment is a signal received from another activity in the same process
- c. Receive payment is an object that flows from an external process
- d. Receive payment is a signal that is received asynchronously

- a.
- b.
- c.
- d.

No, the answer is incorrect.
Score: 0
Accepted Answers:
c.

- 10) Which one of the following is **not true** of boundary objects?
- a. Handle interaction with actors.

b. Often implemented as screens, menus, forms, dialogs etc.

c. Often implement the business logic

d. Often validate input, format output, etc.

- a.
- b.
- c.
- d.

No, the answer is incorrect.
Score: 0
Accepted Answers:
c.