

OOAD[A]-Quiz-7-10 Mins (00189 - OBJECT ORIENTED ANALYSIS AND DESIGN [A][FALL 20-21])

Time: 10 minutes

1.Which of the following is a vertical axis in sequence diagram?. Single choice.

Frames
Object
Time ☐
Class

2.Which of the following problems Structured Controlled Operators solve in sequence diagram?. Single choice.

The problem of drawing almost redundant diagrams due to changes in the response of a function call. ☐

The problem of lengthy sequence diagram.

The problem of relationship being absent in sequence diagram.

The problem of using asynchronous messages for response.

3.In a pizza order system, customer can add extra cheese and/ or extra topping on a basic pizza. For adding extra cheese or topping, there is an additional charge.

Customer may wish not to add these extra items. What would be the appropriate structured control operator for these additional options in the sequence diagram?.

Single choice.

OPT ☐

ALT

PAR

LOOP

4.Which of the following is NOT an element of sequence diagram?. Single choice.

Messages

Time Axis

Class ☐

Operation

5.Sequence diagram shows interaction among objects, but in absence of their relationship.. Single choice.

False

True ☐

6.What does activation bar represent in sequence diagram?. Single choice.

How necessary the object is in the sequence diagram.

How long an object waits for a response.

How long a message takes to complete.

How long an object is involved in the sequence diagram. ☐

7.What type of message is appropriate for the following function?

checkProductAvailability (product, qty): Boolean. Single choice.

Asynchronous Messages

Sequential Message

Synchronous Messages ☐

Parallel Message

8.Objects must be organized in a specific order in sequence diagram.. Single choice.

True

False ☐

9.Why it is called sequence diagram?. Single choice.

Because there is sequence number of messages.

Because objects are organized in an axis sequentially.

Because order of the objects is always in a sequence.

Because messages are distributed on a time axis in order of sequence. ☐

10.What type of message is appropriate for the following function? reduceProduct (product, qty). Single choice.

Asynchronous Messages ☐

Parallel Message

Sequential Message

Synchronous Messages

11.Objects are organized in horizontal axis in top in the sequence diagram.. Single choice.

True ☐

False

12.Sequence number is mandatory in sequence diagram.. Single choice.

False ☐

True

1.What is the benefit of using structured controlled operators in sequence diagram?.

To be able to include all alternate or optional scenarios in the same diagram.

2.Which of the following is NOT an element of sequence diagram?.

Association

3.Which of the following are the axes in sequence diagram?.

Time and Object

4.What type of message is appropriate for the following function?

checkCustomerStatus (customerNo): String.

Synchronous Messages

5.Which of the following is a risk factor in sequence diagram?.

Interactions are designed without relationship.

6.Which of the following type of message is appropriate for designing the response of the following function? checkCustomerStatus (customerNo): String.

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7.Sequence and collaboration diagram - both are interaction diagrams in UML..

True

8.Sequence diagram represents dynamic view of a system illustrating the interaction among objects in respect of time..

True

9.Sequence diagram represents static view of a system design..

False

10.What does a circle on a message represent in a sequence diagram?. .

Time constraint on the message.

11.In a coffee order system, customer can add extra chocolate and/ or extra cream on a basic coffee. For adding these extra, there is an additional charge. Customer may wish not to add these extra items. What would be the appropriate structured control operator for these additional options in the sequence diagram?.

OPT

12.Collaboration diagram more justifies the interactions among objects than sequence diagram..

True

1.Sequence diagram represents dynamic view of a system illustrating the interaction among objects in respect of time.. Single choice.

(1/1 Point)

False

True

2.In a coffee order system, customer can add extra chocolate and/ or extra cream on a basic coffee. For adding these extra, there is an additional charge. Customer may wish not to add these extra items. What would be the appropriate structured control operator for these additional options in the sequence diagram?. Single choice.

(0/1 Point)

OPT

LOOP

PAR

ALT

3.Which of the following are the axes in sequence diagram?. Single choice.

(1/1 Point)

Object and Message

Frame and Object

Time and Object

Class and Time

4.What type of message is appropriate for the following function?

checkCustomerStatus (customerNo): String. Single choice.

(1/1 Point)

Sequential Message

Synchronous Messages

Asynchronous Messages

Parallel Message

5.Which of the following is a risk factor in sequence diagram?. Single choice.

(1/1 Point)

Interactions are designed without time.

Interactions are designed without relationship.

Order of the interactions are not possible to identify if sequence number is missing.

Objects are drawn without their details of operations.

6.Collaboration diagram more justifies the interactions among objects than sequence diagram.. Single choice.

(0/1 Point)

False

True

7.What is the benefit of using structured controlled operators in sequence diagram?. Single choice.

(0/1 Point)

To be able to include all alternate or optional scenarios in the same diagram.

To be able to divide a long sequence diagram into small pieces.

To be able to replace all synchronous messages by asynchronous messages.

To shorten the diagram size.

8.Sequence diagram represents static view of a system design.. Single choice.

(1/1 Point)

False

True

9.What does a circle on a message represent in a sequence diagram?. Single choice.

(1/1 Point)

Asynchronous message.

Time constraint on the message.

Priority of the message.

Loop message.

10.Sequence and collaboration diagram - both are interaction diagrams in UML..

Single choice.

(1/1 Point)

True

False

11.Which of the following type of message is appropriate for designing the response of the following function? checkCustomerStatus (customerNo): String.

Single choice.

(0/1 Point)

Synchronous Messages

Asynchronous Messages

----->

----->

12.Which of the following is NOT an element of sequence diagram?. Single choice.

(1/1 Point)

Association
Synchronous Messages
Sequence Number
Asynchronous Messages

1.Activation bar is applicable to which of the followings in a sequence diagram?.

Number of messages in the diagram.

Type of Messages in the diagram.

Priority of the objects in the diagram.

Objects involvement in the diagram.

2.Why structured controlled operators are used in sequence diagram?.

To replace synchronous messages in the diagram.

To reduce the size of a sequence diagram.

To supplement the absence of relationship in the diagram.

To incorporate the possible optional response scenarios of a function call in the same diagram.

3.Sequence number is optional in sequence diagram..

True

False

4.Which of the following is NOT an element of sequence diagram?.

Synchronous Messages

Activation Bar

Anonymous objects

Aggregation

5.Why it is called sequence diagram

Because messages are distributed on a time axis in order of sequence.

Because there is sequence number of messages.

Because objects are organized in an axis sequentially.

Because order of the objects is always in a sequence.

6.In a pizza order system, customer can choose the size of the pizza among large,medium or small. Based on the choice, the final price is calculated. Customer must choose a particular size to confirm the order. What would be the appropriate structured control operator for the choice of the customer in the sequence diagram?.

PAR

LOOP

ALT

OPT

7.What type of message is appropriate for the following function? notifyStudent

(info

Asynchronous Messages

Sequential Message

Synchronous Messages

Parallel Message

8.Objects must be organized in a specific order in sequence diagram..

False

True

9.Interactions are distributed in vertical timeline in a sequence diagram..

True

False

10.Collaboration diagram shows interaction among objects in presence of their relationship

True

False

11.What type of message is appropriate for the following function?

getStudentStatus (studentID): String.

Synchronous Messages

Asynchronous Messages

Sequential Message

Parallel Message

12.Which of the following is a horizontal axis in sequence diagram?.

Class

Frames

Object

Time

1.Activation bar is applicable to which of the followings in a sequence diagram?.

Single choice.

(1/1 Point)

☐ Number of messages in the diagram.

☐ Type of Messages in the diagram.

☐ Priority of the objects in the diagram.

☒ **Objects involvement in the diagram.**

2.Why structured controlled operators are used in sequence diagram?. Single

choice.

(1/1 Point)

☐ To replace synchronous messages in the diagram.

☐ To reduce the size of a sequence diagram.

☐ To supplement the absence of relationship in the diagram.

☒ **To incorporate the possible optional response scenarios of a function call in the same diagram.**

3.Sequence number is optional in sequence diagram.. Single choice.

(1/1 Point)

☒ **True**

☐ False

4.Which of the following is NOT an element of sequence diagram?. Single choice.

(1/1 Point)

☐ Synchronous Messages

☐ Activation Bar

☐ Anonymous objects

☒ **Aggregation**

5.Why it is called sequence diagram?. Single choice.

(1/1 Point)

☒ **Because messages are distributed on a time axis in order of sequence.**

☐ Because there is sequence number of messages.

☐ Because objects are organized in an axis sequentially.

☐ Because order of the objects is always in a sequence.

6.In a pizza order system, customer can choose the size of the pizza among large, medium or small. Based on the choice, the final price is calculated. Customer

must choose a particular size to confirm the order. What would be the appropriate structured control operator for the choice of the customer in the sequence diagram?. Single choice.

(0/1 Point)

- ☐ PAR
- ☐ LOOP
- ☒ ALT
- ☐ OPT

7.What type of message is appropriate for the following function? notifyStudent (info). Single choice.

(1/1 Point)

- ☒ Asynchronous Messages
- ☐ Sequential Message
- ☐ Synchronous Messages
- ☐ Parallel Message

8.Objects must be organized in a specific order in sequence diagram.. Single choice.

(0/1 Point)

- ☒ False
- ☐ True

9.Interactions are distributed in vertical timeline in a sequence diagram.. Single choice.

(0/1 Point)

- ☒ True
- ☐ False

10.Collaboration diagram shows interaction among objects in presence of their relationship.. Single choice.

(1/1 Point)

- ☒ True
- ☐ False

11.What type of message is appropriate for the following function? getStudentStatus (studentID): String. Single choice.

(0/1 Point)

- ☐ Synchronous Messages

- ☒ Asynchronous Messages

- ☐ Sequential Message
- ☐ Parallel Message

12.Which of the following is a horizontal axis in sequence diagram?. Single choice.

(1/1 Point)

- ☒ Object

- ☐ _____

- ☐ _____

- ☐ _____

- ☐ _____

- ☐ _____

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- ☐ _____

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- ☐ _____

4.In a coffee order system, customer can add extra chocolate and/ or extra cream on a basic coffee. For adding these extra, there is an additional charge. Customer may wish not to add these extra items. What would be the appropriate structured control operator for these additional options in the sequence diagram?. Single choice.

(1/1 Point)

- ☐ LOOP
- ☐ PAR
- ☒ OPT
- ☐ ALT

5.Sequence diagram represents dynamic view of a system illustrating the interaction among objects in respect of time.. Single choice.

(1/1 Point)

- ☒ True
- ☐ False

6.Sequence and collaboration diagram - both are interaction diagrams in UML.. Single choice.

(1/1 Point)

- ☒ True
- ☐ False

7.Sequence diagram represents static view of a system design.. Single choice.

(1/1 Point)

- ☐ True
- ☒ False

8.What does a circle on a message represent in a sequence diagram?. Single choice.

(1/1 Point)

- ☒ Time constraint on the message.
- ☐ Asynchronous message.
- ☐ Priority of the message.
- ☐ Loop message.

9.Which of the following type of message is appropriate for designing the response of the following function? checkCustomerStatus (customerNo): String. Single choice.

(0/1 Point)

- ☐ Synchronous Messages

- ☐ ----->>

- ☐ ----->>

- ☐ Asynchronous Messages

10.Which of the following is a risk factor in sequence diagram?. Single choice.

(0/1 Point)

- ☐ Order of the interactions are not possible to identify if sequence number is missing.
- ☒ Interactions are designed without relationship.
- ☐ Objects are drawn without their details of operations.
- ☐ Interactions are designed without time.

11.Which of the following is NOT an element of sequence diagram?. Single choice.

(0/1 Point)

- ☐ Sequence Number
- ☐ Synchronous Messages
- ☐ Asynchronous Messages
- ☒ Association

12.What type of message is appropriate for the following function? checkCustomerStatus (customerNo): String. Single choice.

(0/1 Point)

- ☐ Asynchronous Messages
- ☐ Parallel Message
- ☐ Sequential Message
- ☒ Synchronous Messages

1.Which of the following is a vertical axis in sequence diagram?. Single choice.

(0/1 Point)

- Class
- Frames
- Object
- Time**

2.Sequence number is mandatory in sequence diagram.. Single choice.

(0/1 Point)

- True
- False**

3.Sequence diagram shows interaction among objects, but in absence of their relationship.. Single choice.

(1/1 Point)

False

True

4.What type of message is appropriate for the following function? checkProductAvailability (product, qty): Boolean. Single choice.

(0/1 Point)

Sequential Message

Asynchronous Messages

Parallel Message

Synchronous Messages

5.Which of the following problems Structured Controlled Operators solve in sequence diagram?. Single choice.

(1/1 Point)

The problem of using asynchronous messages for response.

The problem of drawing almost redundant diagrams due to changes in the response of a function call.

The problem of lengthy sequence diagram.

The problem of relationship being absent in sequence diagram.

6.Objects must be organized in a specific order in sequence diagram.. Single choice.

(0/1 Point)

False

True

7.Why it is called sequence diagram?. Single choice.

(1/1 Point)

Because order of the objects is always in a sequence.

Because objects are organized in an axis sequentially.

Because messages are distributed on a time axis in order of sequence.

Because there is sequence number of messages.

8.What type of message is appropriate for the following function? reduceProduct (product, qty). Single choice.

(1/1 Point)

Synchronous Messages

Asynchronous Messages

Sequential Message

Parallel Message

9.In a pizza order system, customer can add extra cheese and/ or extra topping on a basic pizza. For adding extra cheese or topping, there is an additional charge. Customer may wish not to add these extra items. What would be the appropriate structured control operator for these additional options in the sequence diagram?. Single choice.

(1/1 Point)

LOOP

OPT

ALT

PAR

10.Objects are organized in horizontal axis in top in the sequence diagram.. Single choice.

(1/1 Point)

False

True

11.Which of the following is NOT an element of sequence diagram?. Single choice.

(1/1 Point)

Time Axis

Operation

Class

Messages

12.What does activation bar represent in sequence diagram?. Single choice.

(1/1 Point)

How long an object waits for a response.

How long a message takes to complete.

How long an object is involved in the sequence diagram.

How necessary the object is in the sequence diagram.

1.Sequence diagram represents dynamic interaction view of a system design.. Single choice.

(1/1 Point)

☐ False

☒ True

2.What type of message is appropriate for the following function? checkBookStatus (BookNo): Boolean. Single choice.

(1/1 Point)

☐ Parallel Message

☐ Sequential Message

☐ Asynchronous Messages

☒ Synchronous Messages

3.Which of the following is missing in sequence diagram?. Single choice.

(1/1 Point)

☐ Object

☒ Link

☐ Time Axis

☐ Messages

4.Sequence and communication diagram - both are the interaction diagrams in UML. Single choice.

(1/1 Point)

☐ False

☒ True

5.Which of the following is the correct advantage of using structured controlled operators in sequence diagram?. Single choice.

(0/1 Point)

☐ To create segments of sequence diagram according to priority.

☐ To make the sequence diagram short.

☐ To replace all synchronous messages by asynchronous messages.

☒ To be able to include all alternate or optional scenarios in the same diagram.

6.What type of message is appropriate for the following function? setBookStatus (BookNo, Status). Single choice.

(0/1 Point)

☐ Sequential Message

☒ Asynchronous Messages

☐ Parallel Message

☐ Synchronous Messages

7.In a coffee order system, customer can choose the size of the coffee either large, medium or small. For different size there is different price and bill is calculated accordingly. Customer need to choose one of the sizes to finalize the order. What would be the appropriate structured control operator for the choice of the customer in the sequence diagram?. Single choice.

(1/1 Point)

☐ LOOP

☐ PAR

☐ OPT

☒ ALT

8.Sequence diagram more justifies the interactions among objects than collaboration diagram.. Single choice.

(0/1 Point)

☐ True

☒ False

9.Which of the following would make collaboration diagram unreadable?. Single choice.

(1/1 Point)

☐ Introducing time axis.

☐ Type of the relationship.

☒ Absence of sequence number.

☐ Type of messages.

10.What does a circle on a message represent in a sequence diagram?. Single choice.

(1/1 Point)

☐ The message is a loop type message.

☐ It is an optional message.

☐ It is an asynchronous message.

☒ That the message must complete within a given time.

11.Collaboration diagram represents dynamic view of a system illustrating the interaction among objects in respect of time.. Single choice.

(1/1 Point)

☐ True

☒ False

12.Which of the following is NOT an element of sequence diagram?. Single choice.

choice.

(1/1 Point)

☐ Sequence Number

☐ Structured controlled operators

☐ Messages

Generalization

1. In a pizza order system, customer can add extra cheese and/ or extra topping on a basic pizza. For adding extra cheese or topping, there is an additional charge. Customer may wish not to add these extra items. What would be the appropriate structured control operator for these additional options in the sequence diagram?. Single choice.

(0/1 Point)

LOOP

OPT

PAR

ALT

2. Which of the following is NOT an element of sequence diagram?. Single choice.

(1/1 Point)

Messages

Operation

Class

Time Axis

3. Which of the following problems Structured Controlled Operators solve in sequence diagram?. Single choice.

(0/1 Point)

The problem of relationship being absent in sequence diagram.

The problem of lengthy sequence diagram.

The problem of using asynchronous messages for response.

The problem of drawing almost redundant diagrams due to changes in the response of a function call.

4. Objects are organized in horizontal axis in top in the sequence diagram.. Single choice.

(0/1 Point)

True

False

5. What type of message is appropriate for the following function? checkProductAvailability (product, qty): Boolean. Single choice.

(1/1 Point)

Parallel Message

Sequential Message

Asynchronous Messages

Synchronous Messages

6. Objects must be organized in a specific order in sequence diagram.. Single choice.

(1/1 Point)

True

False

7. What type of message is appropriate for the following function? reduceProduct (product, qty). Single choice.

(1/1 Point)

Synchronous Messages

Sequential Message

Asynchronous Messages

Parallel Message

8. What does activation bar represent in sequence diagram?. Single choice.

(0/1 Point)

How necessary the object is in the sequence diagram.

How long an object is involved in the sequence diagram.

How long a message takes to complete.

How long an object waits for a response.

9. Why it is called sequence diagram?. Single choice.

(1/1 Point)

Because there is sequence number of messages.

Because order of the objects is always in a sequence.

Because objects are organized in an axis sequentially.

Because messages are distributed on a time axis in order of sequence.

10. Which of the following is a vertical axis in sequence diagram?. Single choice.

(1/1 Point)

Time

Class

Object

Frames

11. Sequence number is mandatory in sequence diagram.. Single choice.

(1/1 Point)

True

False

12. Sequence diagram shows interaction among objects, but in absence of their relationship.. Single choice.

(1/1 Point)

False

True

OOAD[A]-Quiz 8 - 8 Minutes (00189 - OBJECT ORIENTED ANALYSIS AND DESIGN [A][FALL 20-21])

Time: 8 Mins

1. When an employee applies for leave, an application object is created as applied. If his supervisor approves the leave the application is approved. If the supervisor does not approve the leave, the leave the application is disapproved. In the above, which object is eligible to be designed in the object flow in this Activity Diagram?

Application

Employee

Supervisor

No object

2. Which of the following is used in Activity Diagram to design multiple alternate flow based on a condition?

Synchronization

Merge Point

Decision Point

Forking

3. Which of the following is true?

Action is atomic

Activity is atomic

Activity cannot be interrupted

Action can be interrupted

4. When client wants to open an account in a bank, the application is verified. If the application is approved, the cheque book and ATM card are processed simultaneously. If the application is disapproved the reason is notified to the client. How many concurrent activities are available in the above case?

2

3

1

5. Which of the following is used in Activity Diagram to design completion of parallel activities?

Forking

Decision Point

Synchronization

Merge Point

6. Which of the following is NOT an element of Activity Diagram?

Start Point

Relationship

Forking

Decision Point

7. Which of the following is TRUE in Activity Diagram?

Number of arrows initiated from a forking may differ from the number arrows finishing in its respective synchronization

Number of arrows initiated from a forking must match with the number arrows finishing in its respective synchronization

Number of arrows initiated from a synchronization must match with the number arrows finishing in its respective forking

Number of Arrows initiated from a Decision Point must match with the number of arrows finishing in a Merge point

8. Objects can be included in Activity Diagram to show object flow when:

flow of activity inside objects needs to be designed

functionalities of all relevant object are shown

there is significant change in the state of relevant objects

None of the above

9. To design simultaneous activities, which of the following technique is used in Activity Diagram?

Decision Point

Frames

Forking

Transition

10. Swimlane in Activity Diagram represents:

Coding

a business entity

functionality of a class

an object

1. When client wants to open an account in a bank, the application is verified. If the application is approved, the cheque book, the online client access and ATM card is processed simultaneously. If the application is disapproved the reason is notified to the client. How many concurrent activities are available in the above case?

3

2.Which of the following is true?

☐ **There can be multiple end points in activity diagram.**

3.Which of the following is true?

☐ **Part of an action cannot be executed.**

4.Swimlane in Activity Diagram represents

☐ **a business unit**

5.A student can add an open section in his registration and the count of the section increases. If the count reaches 40, the section becomes closed. On the other hand, if the count of the section is less than 10, the section is cancelled. In the above, which object is eligible to be designed in the object flow in this Activity Diagram?.

☐ **Section**

6.Which of the following is TRUE in Activity Diagram?.

Number of concurrent flows starting from a forking must match with the number of concurrent flows finishing in its respective joining.

7.A forking is:

☐ **One incoming flow and multiple parallel outgoing flow.**

8.Which of the following is NOT an element of Activity Diagram?

☐ **Class**

9.Objects can be included in Activity Diagram to show object flow when:

☐ **Object that is affected by an activity and its state changes**

10.A merge point is:

Multiple alternate incoming flow and one outgoing flow.

1.When customer places an order an order object is created. If the products are available and the customer paid for the total amount, the product is set as sold. If the products are available; but customer wants to pay later, the product is set as booked. In the above, which object is eligible to be designed in the object flow of the Activity Diagram?.

Customer

Order

Product

No object

2.Which of the following is true?.

Action is grouping of actions or other activities

Action is non-atomic

Activity can't be decomposed

Actions can't be decomposed

3.Which of the following is true regarding Swimlane?.

It has deep semantics in respect to coding

'Marketing' can be a Swimlane.

It represents functionality of a class

Within a diagram name of a Swimlane can be repeated

4.A joining is

Multiple parallel incoming flow and one outgoing flow.

Multiple alternate incoming flow and one outgoing flow.

One incoming flow and multiple alternate outgoing flow.

One incoming flow and multiple parallel outgoing flow.

5.Number of arrows initiated from a forking must match with the number arrows finishing in its respective

Merge Point

End Point

Decision Point

Joining

6.Object flow in Activity Diagram indicates

Flow of control from one object to another

Changes caused by the activities in the Object(s) condition

All relevant objects

Object(s) without any change in their situation

7.Activity Diagram addresses

Dynamic behavioral view of a system

Static design view of a system

Dynamic process view of a system

Static implementation view of a system

8.When customer places an order a new order object is created. If the products are available, they are added to the order, product status are updated and products are reduced from the inventory at the same time. If the products are available; but customer wants to pay later, the order becomes tentative. How many concurrent activities are available in the above case

3

2

4

1

9.Which of the following is used to represent an object (object flow) in activity in Activity Diagram

Capsule

Rectangle

Circular dot

Diamond

10.A decision point is

Multiple alternate incoming flow and one outgoing flow.

One incoming flow and multiple parallel outgoing flow.

One incoming flow and multiple alternate outgoing flow.

Multiple parallel incoming flow and one outgoing flow.

1.A forking is

Multiple parallel incoming flow and one outgoing flow.

One incoming flow and multiple parallel outgoing flow.

One incoming flow and multiple alternate outgoing flow.

Multiple alternate incoming flow and one outgoing flow.

2.Which of the following is true

Part of an action cannot be executed.

Part of an action can be executed.

Part of an activity can be executed.

Activity is atomic.

3.A merge point is:.

Multiple parallel incoming flow and one outgoing flow.

One incoming flow and multiple alternate outgoing flow.

Multiple alternate incoming flow and one outgoing flow.

One incoming flow and multiple parallel outgoing flow.

4.Which of the following is NOT an element of Activity Diagram?.

End Point

Decision Point

Forking

Class

5.Swimlane in Activity Diagram represents:.

Attribute value

argument of an operation

a business unit

status of a class

6.A student can add an open section in his registration and the count of the

section increases. If the count reaches 40, the section becomes closed. On the other hand, if the count of the section is less than 10, the section is cancelled. In the above, which object is eligible to be designed in the object flow in this Activity Diagram?.

Course

Student

Registration

Section

7.Which of the following is TRUE in Activity Diagram?.

Number of arrows initiated from a synchronization must match with the number arrows finishing in its respective forking

Number of concurrent flows starting from a forking must match with the number of concurrent flows finishing in its respective joining.

Number of alternate flows starting from a forking must match with the number of flows finishing in its respective joining.

Number of arrows initiated from a forking may differ from the number arrows finishing in its respective synchronization

8.Objects can be included in Activity Diagram to show object flow when:.

Only the object that starts the initial activity

All object that are involved with the activities

Object that is affected by an activity and its state changes

Objects that represent the Swimlane

9.When client wants to open an account in a bank, the application is verified. If the application is approved, the cheque book, the online client access and ATM card is processed simultaneously. If the application is disapproved the reason is notified to the client. How many concurrent activities are available in the above case?.

4

3

2

1

10.Which of the following is true?.

There can be multiple end points in activity diagram.

End points are optional in activity diagram.

There can be only one end point in activity diagram.

End points must match the start points.

1.Activity Diagram addresses:. Single choice.
(1/1 Point)

- ☐ **Dynamic process view of a system**
- ☐ Dynamic behavioral view of a system
- ☐ Static design view of a system
- ☐ Static implementation view of a system

2.Object flow in Activity Diagram indicates:. Single choice.
(0/1 Point)

- ☐ Flow of control from one object to another
- ☐ **Changes caused by the activities in the Object(s) condition**
- ☐ All relevant objects
- ☐ Object(s) without any change in their situation

3.Which of the following is true?. Single choice.
(1/1 Point)

- ☐ Action is grouping of actions or other activities
- ☐ Action is non-atomic
- ☐ Activity can't be decomposed
- ☐ **Actions can't be decomposed**

4.A joining is:. Single choice.
(1/1 Point)

- ☐ One incoming flow and multiple alternate outgoing flow.
- ☐ **Multiple alternate incoming flow and one outgoing flow.**
- ☐ One incoming flow and multiple parallel outgoing flow.
- ☐ Multiple parallel incoming flow and one outgoing flow.

5.Which of the following is used to represent an object (object flow) in activity in Activity Diagram?. Single choice.

- (1/1 Point)
- ☐ Capsule
 - ☐ Diamond
 - ☐ **Rectangle**
 - ☐ Circular dot

6.When customer places an order a new order object is created. If the products are available, they are added to the order, product status are updated and products are reduced from the inventory at the same time. If the products are available; but customer wants to pay later, the order becomes tentative. How many concurrent activities are available in the above case?. Single choice.

(1/1 Point)

- ☐ 1
- ☐ 4
- ☐ 2
- ☐ **3**

7.Which of the following is true regarding Swimlane?. Single choice.
(1/1 Point)

- ☐ It represents functionality of a class
- ☐ It has deep semantics in respect to coding
- ☐ Within a diagram name of a Swimlane can be repeated
- ☐ **'Marketing' can be a Swimlane.**

8.Number of arrows initiated from a forking must match with the number arrows finishing in its respective:. Single choice.

- (1/1 Point)
- ☐ Merge Point
 - ☐ **Joining**
 - ☐ Decision Point
 - ☐ End Point

9.When customer places an order an order object is created. If the products are available and the customer paid for the total amount, the product is set as sold. If the products are available; but customer wants to pay later, the product is set as booked. In the above, which object is eligible to be designed in the object flow of the Activity Diagram?. Single choice.

- (1/1 Point)
- ☐ Order
 - ☐ **Product**
 - ☐ Customer
 - ☐ No object

10.A decision point is:. Single choice.

(1/1 Point)

- ☐ One incoming flow and multiple parallel outgoing flow.
- ☐ **One incoming flow and multiple alternate outgoing flow.**
- ☐ Multiple alternate incoming flow and one outgoing flow.
- ☐ Multiple parallel incoming flow and one outgoing flow.

1.Which of the following is true regarding Swimlane?. Single choice.
(1/1 Point)

It represents real-world entity

It represents functionality of a class
Within a diagram name of a Swimlane can be repeated
It has deep semantics in respect to coding

2.Number of arrows initiated from a forking must match with the number arrows finishing in its respective:. Single choice.

(0/1 Point)

Synchronization

Merge Point
End Point
Decision Point

3.Which of the following is the technique in Activity Diagram to design concurrency?. Single choice.

(1/1 Point)

Forking

Transition
Decision Point
Frames

4.Which of the following is true?. Single choice.
(1/1 Point)

Action is grouping of actions or other activities

Activity is grouping of actions or other activities

Action is non-atomic.
Activity is atomic.

5.Object flow in Activity Diagram indicates:. Single choice.
(0/1 Point)

Change of state of the associated Object(s) only

All relevant objects
Flow of control from one object to another
Object(s) without any change in their situation

6.Which of the following has multiple alternate incoming arrow and one outgoing arrow?. Single choice.

(0/1 Point)

Forking
Synchronization

Merge Point

Decision Point

7.When customer places an order a new order object is created. If the products are available, they are added to the customer order and quantity of products are reduced from the inventory at the same time. If the products are available; but customer wants to pay later, the order becomes tentative. How many concurrent activities are available in the above case?. Single choice.

(1/1 Point)

3

2

4

1

8.Which of the following is used to represent an activity in Activity Diagram?. Single choice.

(1/1 Point)

Diamond
Rectangle
Circular dot

Capsule

9.When customer places an order a new order object is created. If the products are available and the customer paid for the total amount, the order is set as confirmed. If the products are available; but customer wants to pay later, the order becomes tentative. In the above, which object is eligible to be designed in the object flow in this Activity Diagram?. Single choice.

(0/1 Point)

No object

Order

Customer
Product

10.Which of the following has multiple parallel incoming arrow and one outgoing arrow?. Single choice.

(1/1 Point)

Decision Point

Synchronization

Merge Point
Forking

1.Which of the following is used in Activity Diagram to design multiple alternate flow based on a condition?. Single choice.

(1/1 Point)

- ☐ Forking
- ☐ Synchronization
- ☐ Decision Point
- ☐ Merge Point

2.Objects can be included in Activity Diagram to show object flow when:. Single choice.

(1/1 Point)

- ☐ None of the above
- ☐ there is significant change in the state of relevant objects
- ☐ flow of activity inside objects needs to be designed
- ☐ functionalities of all relevant object are shown

3.Swimlane in Activity Diagram represents:. Single choice.

(0/1 Point)

- ☐ functionality of a class
- ☐ an object
- ☐ Coding
- ☐ a business entity

4.Which of the following is NOT an element of Activity Diagram?. Single choice.

(1/1 Point)

- ☐ Start Point
- ☐ Forking
- ☐ Decision Point
- ☒ Relationship

5.When client wants to open an account in a bank, the application is verified. If the application is approved, the cheque book and ATM card are processed simultaneously. If the application is disapproved the reason is notified to the client. How many concurrent activities are available in the above case?. Single choice.

(0/1 Point)

- ☐ 3
- ☐ 1
- ☐ 4

☐ 2

6.When an employee applies for leave, an application object is created as applied. If his supervisor approves the leave the application is approved. If the supervisor does not approve the leave, the leave the application is disapproved. In the above, which object is eligible to be designed in the object flow in this Activity Diagram?. Single choice.

(0/1 Point)

- ☐ No object
- ☐ Employee
- ☐ Application
- ☐ Supervisor

7.To design simultaneous activities, which of the following technique is used in Activity Diagram?. Single choice.

(0/1 Point)

- ☒ Forking
- ☐ Decision Point
- ☐ Transition
- ☐ Frames

8.Which of the following is TRUE in Activity Diagram?. Single choice.

(0/1 Point)

- ☐ Number of arrows initiated from a synchronization must match with the number arrows finishing in its respective forking
- ☐ Number of arrows initiated from a forking may differ from the number arrows finishing in its respective synchronization
- ☐ Number of arrows initiated from a forking must match with the number arrows finishing in its respective synchronization
- ☐ Number of Arrows initiated from a Decision Point must match with the number of arrows finishing in a Merge point

9.Which of the following is used in Activity Diagram to design completion of parallel activities?. Single choice.

(0/1 Point)

- ☐ Synchronization
- ☐ Merge Point
- ☐ Decision Point
- ☐ Forking

10.Which of the following is true?. Single choice.

(1/1 Point)

- ☐ Activity cannot be interrupted
- ☐ Action can be interrupted
- ☐ Action is atomic
- ☐ Activity is atomic

1.Which of the following is the technique in Activity Diagram to design concurrency?. Single choice.

(0/1 Point)

- Frames
- Transition
- Forking
- Decision Point

2.Object flow in Activity Diagram indicates:. Single choice.

(1/1 Point)

- Change of state of the associated Object(s) only
- Object(s) without any change in their situation
- Flow of control from one object to another
- All relevant objects

3.Number of arrows initiated from a forking must match with the number arrows finishing in its respective:. Single choice.

(0/1 Point)

- Synchronization
- Decision Point
- Merge Point
- End Point

4.When customer places an order a new order object is created. If the products are available and the customer paid for the total amount, the order is set as confirmed. If the products are available; but customer wants to pay later, the order becomes tentative. In the above, which object is eligible to be designed in the object flow in this Activity Diagram?. Single choice.

(1/1 Point)

- Product
- No object
- Order
- Customer

5.When customer places an order a new order object is created. If the products are available, they are added to the customer order and quantity of products are reduced from the inventory at the same time. If the products are available; but customer wants to pay later, the order becomes tentative. How many concurrent activities are available in the above case?. Single choice.

(1/1 Point)

2

4

1

3

6.Which of the following has multiple parallel incoming arrow and one outgoing arrow?. Single choice.

(0/1 Point)

- Merge Point
- Forking
- Synchronization
- Decision Point

7.Which of the following has multiple alternate incoming arrow and one outgoing arrow?. Single choice.

(0/1 Point)

- Decision Point
- Merge Point
- Forking
- Synchronization

8.Which of the following is true regarding Swimlane?. Single choice.

(1/1 Point)

- It represents real-world entity
- Within a diagram name of a Swimlane can be repeated
- It represents functionality of a class
- It has deep semantics in respect to coding

9.Which of the following is used to represent an activity in Activity Diagram?. Single choice.

(1/1 Point)

- Capsule
- Diamond
- Rectangle
- Circular dot

10.Which of the following is true?. Single choice.

(0/1 Point)

Activity is atomic

Action is non-atomic
Action is grouping of actions or other activities
Activity is grouping of actions or other activities

1. When an employee applies for leave, an application object is created as applied. If his supervisor approves the leave the application is approved. If the supervisor does not approve the leave, the leave the application is disapproved. In the above, which object is eligible to be designed in the object flow in this Activity Diagram?. Single choice.

(0/1 Point)

No object
Employee
Supervisor
Application *

2. When client wants to open an account in a bank, the application is verified. If the application is approved, the cheque book and ATM card are processed simultaneously. If the application is disapproved the reason is notified to the client. How many concurrent activities are available in the above case?. Single choice.

(0/1 Point)

2 *
3
1
4

3. Which of the following is TRUE in Activity Diagram?. Single choice.

(0/1 Point)

Number of arrows initiated from a synchronization must match with the number arrows finishing in its respective forking
Number of arrows initiated from a forking must match with the number arrows finishing in its respective synchronization *
Number of arrows initiated from a forking may differ from the number arrows finishing in its respective synchronization
Number of Arrows initiated from a Decision Point must match with the number of arrows finishing in a Merge point

4. Which of the following is NOT an element of Activity Diagram?. Single choice.

(1/1 Point)

Forking
Start Point

Relationship *

Decision Point

5. Swimlane in Activity Diagram represents:. Single choice.

(0/1 Point)

an object
a business entity *
functionality of a class
Coding

6. Which of the following is used in Activity Diagram to design completion of parallel activities?. Single choice.

(1/1 Point)

Decision Point
Forking
Merge Point
Synchronization *

7. Objects can be included in Activity Diagram to show object flow when:. Single choice.

(1/1 Point)

there is significant change in the state of relevant objects *
flow of activity inside objects needs to be designed
None of the above
functionalities of all relevant object are shown

8. Which of the following is true?. Single choice.

(0/1 Point)

Activity is atomic
Action is atomic *
Activity cannot be interrupted
Action can be interrupted

9. To design simultaneous activities, which of the following technique is used in Activity Diagram?. Single choice.

(1/1 Point)

Forking *
Decision Point
Frames
Transition

10. Which of the following is used in Activity Diagram to design multiple alternate flow based on a condition?. Single choice.

(1/1 Point)

Synchronization
Merge Point

Decision Point *
Forking