060010413 - CC13 Software Engineering - Quiz 02

Due May 28 at 11amPoints 40Questions 40Available May 27 at 11:30am - May 28 at 1pm 1 dayTime Limit 40 Minutes

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	23 minutes	36 out of 40

① Correct answers will be available on May 28 at 1pm.

Score for this quiz: **36** out of 40 Submitted May 27 at 11:59am This attempt took 23 minutes.

Question 1	1 / 1 pts
The class modelling technique:	
Combines data and functions	
 Separates data and functions 	
Gives more importance to functions	
Gives more importance to data	

Which are the modeling techniques used in Object-Oriented Analysis?

i. Flowcharts	
ii. Use cases	
iii. Data Flow Diagrams	
iv. Activity diagram	
v. Sequence diagram	
(i), (ii), (iv)	
(i), (iii), (iv)	
○ (ii), (iv), (v)	
○ (ii), (iii), (v)	

If there is a change in the interface, then the interface class should, but the entity classes and control classes will remain unaffected. True False

Question 4	1 / 1 pts
The control classes represent	
All of the above	

Handle the tasks of the events
The dynamics of the system
Handle the sequence of the events

Question 5	1 / 1 pts
Which of the following is not true?	
Control classes are not affected by the changes in the entit	y classes.
Control classes are used to control the flow of events.	
Control classes are independent of their surroundings.	
None of the above	

Question 6	1 / 1 pts

If a class is a whole and other classes are its parts, then which type of relationship should be modelled?
Opendency
Aggregation
 Association
 Generalization

Question 7	1 / 1 pts
Which type of relationship is modelled by the aggregation relationship?	
Parent-child	
• Has-a	
○ Is-a	
O Type-of	

Question 8 1 / 1 pts

Which type of relationship signifies that the changes in one class affect the other class?

Composition	
Dependency	
 Aggregation 	
 Association 	

What is the generalization relationship? It signifies parent-child relationship among classes. It provides structural connections between instances of classes. It provides whole-part kind of relationship between classes.

Question 10	1 / 1 pts
Which of the following is a mechanism that allows severa a class hierarchy to have different methods with the sam	•
Polymorphism	
 Aggregation 	
Inheritance	

 All of the mentioned 		

Incorrect

Question 11		0 / 1 pts
In which of the following re	lationships, multiplic	ity can be specified?
(i) Aggregation (ii) Gene Association	eralization (iii) De	pendency (iv)
i) and (ii)		
(i) and (iv)		
(i), (ii) and (iv)		
i) and (iv)		

Question 12	1 / 1 pts
Classes both attributes and operations that operations that operations attributes, into a single unit.	erate on
Inheritance	
Message passing	
O Polymorphism	
Encapsulate	

Question 13	1 / 1 pts
The operations of a class must be:	
 Insignificant 	
Extensive	
Cohesive	
○ Standard	

Question 14	1 / 1 pts
The extent to which different classes are dependent upor is called:	n each other
Inheritance	
Coupling	
 Modularity 	
Cohesion	

Incorrect	Question 15	0 / 1 pts
	The operations of a class can be identified by:	

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the flow of events given in the use case description.	
• the flow of events given in the classes.	
the objects given in the use case description.	
 None of the above 	

The instance of a class can only be modified through: the objects the inheritance the attributes the operations

1 / 1 pts

Structured approach involves:
 None of the above
Bottom-up approach
Top-down approach
Sandwitch approach

Question 18 1 / 1 pts

Identify the difference between Object-Oriented Analysis and Structured Analysis for the purpose of software development.

In OOA, the focus is more on capturing the real-world objects, while in SA, the focus is only on process and procedures.

In SA, the focus is more on capturing the real-world objects, while in OOP, the focus is only on process and procedures.

None of the above.

In OOA, the focus is more on capturing the real-world objects, while in SA also, the focus is more on capturing the real-world objects.

Question 19 1 / 1 pts

Classes can be categorized into:

•	Entity, control, interface
0	Entity, control, abstract
0 1	Virtual, abstract, template
0	Entity, boundary, monitor

Question 20	1 / 1 pts
The attributes and operations of an entity class may be in the of the use case.	dentified by
None of the above	
Object	
○ Class	
Actor	

Question 21	1 / 1 pts
In which phase, an ideal model is created with the aim to maintainable model?	build a
None of the above	
Object-Oriented Design	
Object-Oriented Analysis	

Object-Oriented Implementation

Question 22	1 / 1 pts
Interaction diagram model is:	
Constant aspects of the system	
Static aspects of the system	
 None of the above 	
Dynamic aspects of the system	

Question 23	1 / 1 pts
In which diagram, the messages sent between objects are ordered?	e timely
Class diagrams	
Sequence diagrams	
Collaboration diagrams	
State transition diagrams	

Question 24 1 / 1 pts

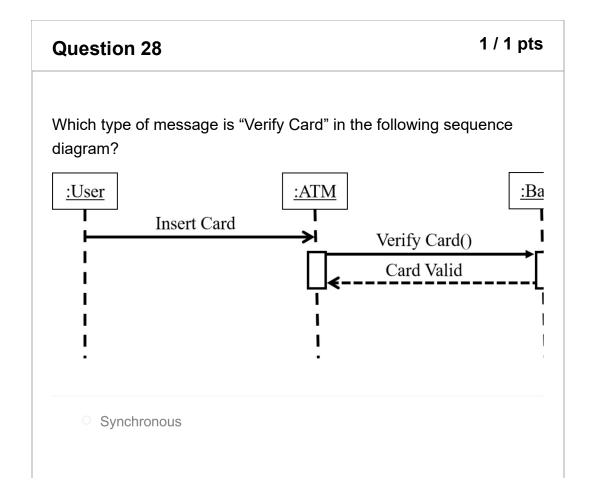
How the objects of a class are written in sequence diagrams?	
Objectname:classname	
Classname objectname	
Classname:objectname	
Objectname/classname	

The rectangle appearing on the vertical axis in a sequence diagrams is known as: Line of control Object Focus of control Lifeline

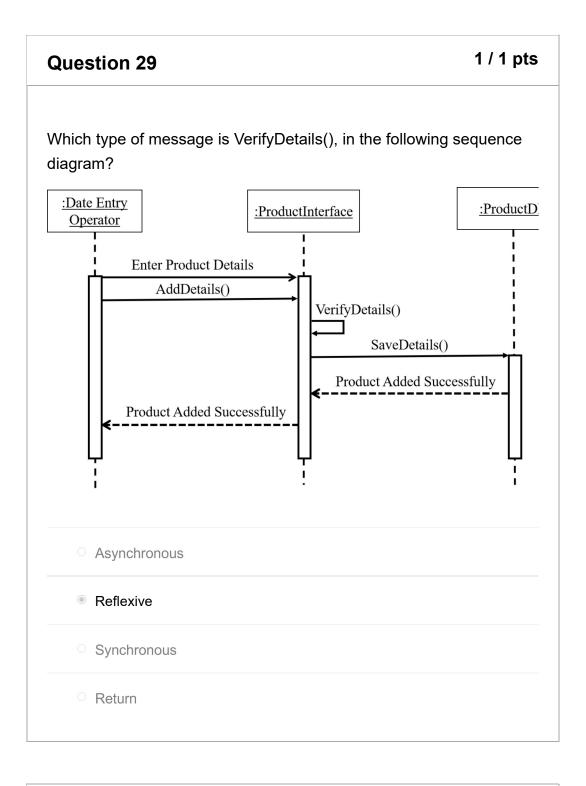
1 / 1 pts

Object sends a message to itself	Sending object does not wait to receive a response
	Object sends a message to itself

Question 27	1 / 1 pts
The destruction of an object is represented by:	
○ Big Y	
○ Rectangle	
Big X	
○ Square	



 Asynchronous 		
Return		
Procedure Call		

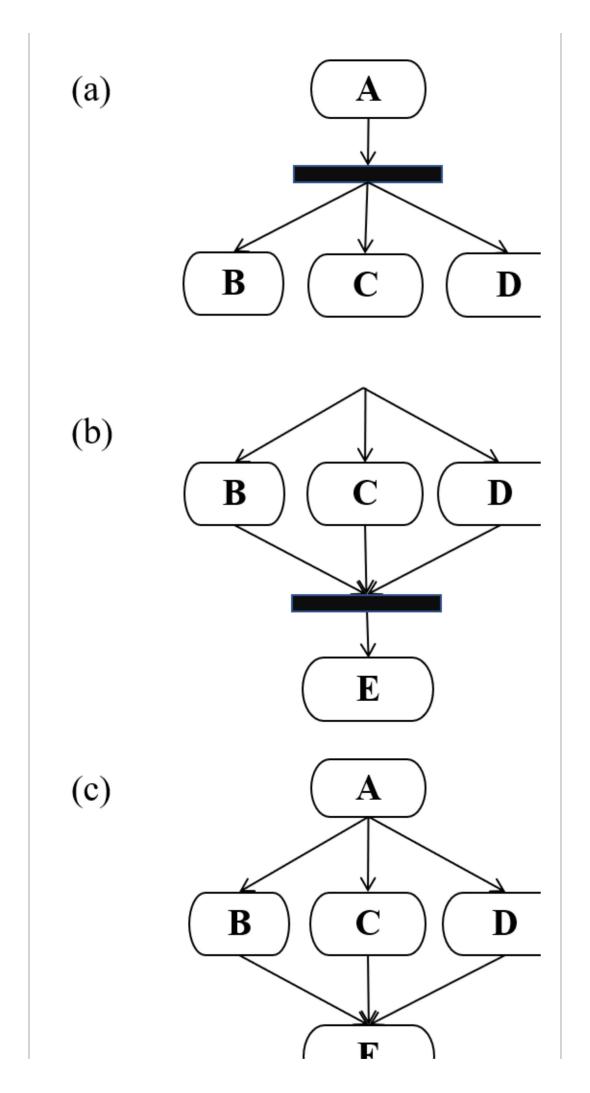


Question 30 1 / 1 pts

'hich	n one of the following is true for collaboration diagrams?
	ollaboration diagrams depict time-ordered messages between pjects.
	Collaboration diagrams consist of a lifeline and focus of control.
	Collaboration diagrams represent static view of the system.
	ollaboration diagrams depict interaction between objects which are ot time ordered.

Which diagrams are used to model the behaviour of an operation? Use case diagram Activity diagram Statechart diagram Sequence diagram

Question 32	1 / 1 pts
Identify the correct example(s) of fork and join for the actividiagrams:	<i>i</i> ity



•	a) is an example of Fork, (b) is an example of Join; and (c) is a wrong example.
	a) is an example of Join, (b) is an example of Fork; and (c) is a wrong example.
	(a) and (b) are examples of Fork; and (c) is an example of Join.
	(a) and (b) are examples of Join; and (c) is an example of Fork.

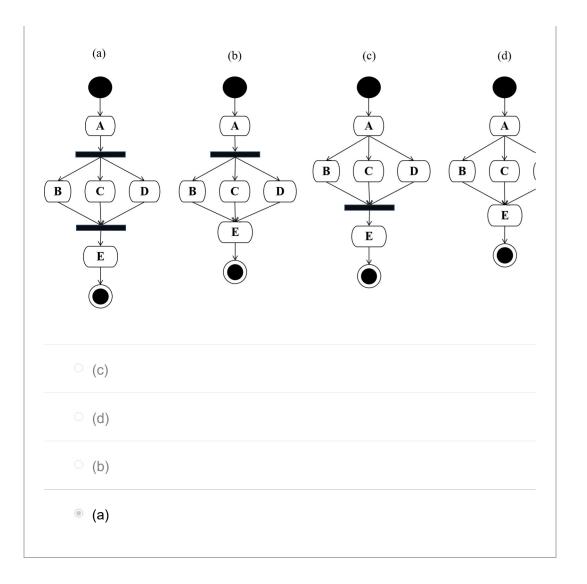
Question 33	11	1 pts
activity.	_ represents the path from one activity to anoth	er
Line		
O Join		
Transition		
○ Fork		

Question 34	1 / 1 pts
Fork and join are used to represent:	
Concurrent sub-activities	
Branch conditions	

Oecision conditions
Serial sub-activities

Can the activity diagrams be used to model the working of only the system's use cases? Yes, they are only used to model a system as a use case, but not more than five uses. Yes, they are only used to model a system as a use case. No, it can also be used to model the working of the use case diagram's systems. No, it can also be used to model the working of the system's process or an operation.

Question 36	1 / 1 pts
Identify the correct activity diagram:	



Incorrect

Question 37 0 / 1 pts

The difference between activity diagrams and statechart diagrams is:

Activity diagram models the states of an object's lifetime, whereas statechart diagram models the sequence of activities in a process or operation.

None of the above

0

Statechart diagram models the states of an object's lifetime, whereas activity diagram models the sequence of activities in a process or operation.

Statechart diagram models the states of an object's lifetime, whereas activity diagram models the interaction between objects.

Question 38	1 / 1 pts
A state transition may be associated as:	
Guard condition[Event]/ Actions	
Event[guard condition]/ Actions	
Event(guard condition)/ Actions	
Actions[gsuard condition]/ Event	

Question 39		1 / 1 pts
Match the following pair	s:	
1. Activity diagram	a. Requirements	
2. Use case diagram	b. States	
3. Sequence diagram	c. Process	
4. Statechart diagram	d. Messages	
● 1-c, 2-a, 3-d, 4-b		
○ 1-c, 2-a, 3-b, 4-d		
○ 1-b, 2-a, 3-d, 4-c		
1-c, 2-b, 3-d, 4-a		

Question 40	1 / 1 pts
To improve the software quality, the number of message received between classes should be reduced.	ges sent and
True	
○ False	

Quiz Score: 36 out of 40