Estd. 1983

J2EE/TCLD-01M/R18/01

Online Test Instructor and Examiner: MD. ABDUL BARI



UML :: Chap	-10 (3-1)
1 S 1	
	loes an algorithmic technique differ from a non-algorithmic technique?
1	*
	Algorithmic techniques describe the internal logic of an operation, while non-algorithmic techniques do not.
2	
	Algorithmic techniques describe only the external interface of an operation, whereas non-algorithmic techniques also describe the
	internal details.
3	
	Algorithmic techniques are used to describe algorithmically complex operations, while non-algorithmic techniques are used to
	describe only simple operations.
2 S 1	
	loes pseudo-code differ from Structured English?
1	*
	The syntax and vocabulary of pseudo-code resemble those of a specific programming language, while Structured English is
	language-neutral.
2	
	The syntax and vocabulary of Structured English resemble those of a specific programming language, while pseudo-code is
	language-neutral.
3	
	Pseudo-code is useful only for procedural programming languages, such as C, while Structured English is useful for any
	programming language, including object-oriented languages.
3 S 1	
	f the following is not a control structure in Structured English. Which one?
1	
	GoTo.
2	
	Iteration.
3	
	Selection.
4 S 1	
	f the following would not normally be included in a contract. Which one?
1	
	The object identifiers of other objects to which events will be transmitted.
2	
	The operation signature.
3	Fronts that the consection will transport to all on this state.
	Events that the operation will transmit to other objects.
5 S 1	and the following in a new placetith win technique. Which are in it?
	one of the following is a non-algorithmic technique. Which one is it?
_ 1	D. Calanda (all lands)
	Decision table.
2	A of the Paragraph
	Activity diagram.
3	Church was different to ship.
	Structured English.
e e e e	
6 S 1	
	one of the following is an algorithmic technique. Which one is it?
1	A stirity of a group
	Activity diagram.
2	Decision table
	Decision table.
3	December 1 to 1 t
	Pre- and post-condition pair.





7	S	1												
	Wha	at do	00	L stat	emen	ts ge	enerally	contain?						
	1		*											
			A c	ontext	a pro	pert	y of the	context and an operation on that property.						
	2	:												
			Sec	Sequence, selection and iteration structures.										
	3													
			Operation intent, operation signature and logic description.											
8	S	1												
	Wha	at is	the	advan	tage	of us	ing cont	racts in operation specification?						
	1		*											
			A c	contract encourages encapsulation by concentrating on the service that an object will provide to other objects and by ignoring										
	the way that the service is to be achieved.							be achieved.						
	2													
			A contract cannot be broken and thus the software will be more reliable in operation.											
	3	3												
						ouraç	jes bette	er design and testing by specifying exactly how an object will achieve a service that it is to provide to						
			oth	er obje	cts.									
9	S	1												
	_	Vhich of the following best describes the main use of OCL?												
	1													
		OCL is used to give precise definition to any constraints in a UML model that cannot be expressed clearly and unambiguous												
		graphical notation.												
	2													
					ed to	desc	cribe the	interaction between objects in more detail than is shown graphically in an interaction sequence						
			dia	gram.										
	3	}												
			OC	L is us	ed sp	ecifi	cally to o	locument operation specifications.						

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UML ::	Chap-	11 (3-1)
1	S 1	
	A guard	d condition may be associated with a transition. Which of the following statements best applies to guard conditions?
	1	
		A guard condition may involve attributes and links of the object that owns the statechart.
	2	
		A guard condition may only involve attributes of the object that owns the statechart.
	3	A guard condition may only involve parameters from the triggering event.
		A guard condition may only involve parameters from the triggering event.
2	S 1	
		chart may have states that include substates. Which of following is true?
	1	*
		An object may occupy more multiple concurrent substates simultaneously.
	2	
		An object may occupy only two concurrent substates simultaneously.
	3	
		An object may only occupy one substate at a time.
-		
3	S 1	
	On the	following figure which symbol represents the final state in the statechart?
	ا ۔ ه	rade Rate(), Doubling
	•	Pending Pending
	*	when [rateStartDate <=
	\	currentDate]
		3
		-
		Active
		when [rateFinishDate <=
		currentDate]
	2	<u></u>
	-	Lapsed
		after [1 year]
		, 👗
		1 > •
	1	*
		1
	2	
		2
	3	
		3
4	S 1	
		havioural approach to constructing statecharts involves which of the following?
	1	All interpotion acquipmed diagrams involving alonges that have because masses in a checild be a reduced.
1	2	All interaction sequence diagrams involving classes that have heavy messaging should be analysed.
		All interaction sequence diagrams should be analysed first.
1	3	All interaction sequence diagrams should be analysed first.
	J	One interaction sequence diagram for each class must be analysed.
		2.10
5	S 1	
	- •	





	The life	cycle approach to constructing statecharts is so called for which of the following reasons.
	1	*
		It attempts to identify the lifecycle of a class from use cases and other requirements documents.
	2	The state of outside the second state of the s
	3	The statecharts are constructed throughout the development lifecycle.
		Collaboration diagrams rather than sequence diagrams are used to analyse behaviour.
6	S 1	
	The tra	nsition from one state to another is triggered by an event. One type of event is a change event. Which of the following statements is
	1	*
		A change event occurs when a condition becomes true.
	2	
		A change event occurs when a condition changes.
	3	A change event occurs when an attribute value changes in an object.
		A change event occurs when an attribute value changes in an object.
7	S 1	
		a statechart is checked for consistency with other models of the system which of the following is true?
	1	Every action should correspond to the evecution of an energtion on the engraprists class
	2	Every action should correspond to the execution of an operation on the appropriate class.
		Every operation in a class must appear as an event on a statechart.
	3	
		Every event must appear on a sequence diagram.
8	S 1	
- 0		an internal transition occurs within a state which of the following is true?
	1	*
	,	The entry and exit actions are not triggered.
	2	The entry and out estimate if present are triggered
	3	The entry and exit actions, if present, are triggered.
		The entry and exit actions if present and the action tied to the internal transition are all triggered.
9	S 1	an object exits a composite state which of the following is true.
	1	
		Whatever combination of substates the composite is in, all those substates are exited.
	2	
	3	Each of the submachines in the composite state must enter their final state.
	3	At least one of the submachines in the composite state must enter its final state.
		The board one of the dubination for the composite state made onto the intal state.
10	S 1	
		of the following is true?
	1	A state is a condition during the life of an object or an interaction during which it satisfies some condition.
	2	A State is a serialist during the ine of an object of an interaction during which it satisfies some condition.
		A state is never transitory, it always lasts for an interval of time.
	3	
		An object always has more than one potential state.
11	S 1	
		of the following statements is true about actions and activities?
	1	*
		Both actions and activities may be tied to a state.
	2	An activity may be tied to a transition.
	3	
		An action may only be tied to transitions.
12	S 1	
	I	



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Which o	of the	e followi	ng s	tatements is true about statecharts in general?				
1	*							
	A s	tatechar	t mu	st have at least one initial state.				
2								
	A s	tatechar	t mu	st have a final state.				
3								
	A statechart must have one initial and one final state							



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UML ::	UML :: Chap-12 (3-1)												
1	S 1												
_	What is	me	ant by a	sec	ure design?								
	1	*											
		The	e design	incl	udes measures to protect the system from deliberate or inadvertent damage.								
	2												
_		The	design	is h	eld in encrypted format in a CASE tool repository.								
	3												
		The	The models are backed up nightly and the back-up stored off-site.										
2	S 1												
		me	ant by ar	n ec	onomical design?								
	1	*											
г		The	fixed co	osts	and running costs of the system will be low.								
	2												
г		The	e design	itse	f was produced at a low cost.								
Į	3	_											
		The	system	Will	use inexpensive disks.								
	01.1												
3	S 1												
-		me	ant by de	esigi	n trade-offs?								
L	1	^	(1 - 2	Constant of the bottom of the constant of the								
Г	-	Αw	ay of res	SOIV	ing conflicts between requirements and design constraints.								
l	2	Λ	(Consequent to the Section of the Section								
Г	_	ΑW	ay of ac	niev	ring measurable objectives in design.								
L	3	Δ	(Communication and								
	l	A way of producing reusable code.											
4	S 1												
		ma	ant by re	1163	bility in design?								
ŀ	1	*	ant by ic	usa	bility in design:								
L	•	Des	sian of cl	ass	es that can be reused in other systems.								
[2												
L		Rei	use of le	gacy	y systems.								
[3												
		Buy	ing rath	er th	nan building software.								
5	S 1												
			ant by th	e te	rm 'measurable objectives'?								
Į	1	*											
г		Obj	ectives t	nat	can be quantified and have a specific numeric target.								
l	2	۸.			to see that are year and difficult to access								
Г		AIM	is of the	sys	tem that are vague and difficult to assess.								
Į	3	Ctr	otogio oi	~ ~ ~	of the organisation that is getting a new system.								
	l	Suc	ategic all	115	ine organisation that is getting a new system.								
6	S 1												
		SVS	tem desi	an?									
	1	*	10111 400	9									
L	•	Des	sianina tl	ne a	rchitecture of the system and setting standards, for example for user interface design.								
[2												
L		Des	signing tl	ne ir	nputs and outputs of the system, processes and data storage.								
[3												
·		Des	signing c	lass	es that will implement the system in an object-oriented language.								
7	S 1												
	Which o	coml	oination	of co	phesion and coupling is desirable in a design?								
	1	*											
		Hig	h cohesi	on a	and low coupling.								





High cohesion and high coupling. 3		
Which of the following is a description of logical design? 1		
8 S 1 Which of the following is a description of logical design? 1 * Design of sapects of the system without having to consider how they will physically be implemented. 2 Design of the logic used in operations, based on decision trees, decision tables or Object Constraint Language. 3 Design of the logic gates used in the implementation of the processor chips used in the system. 9 S 1 Which of the following is a list of characteristics of good analysis? 1 * Completeness, consistency, correct scope and correct content. 2 Consistency, security, reliability and completeness. 3 Consistency, efficiency, effectiveness and correct scope. 10 S 1 Which of the following is a list of characteristics of good design? 1 * Efficiency, reliability, security and flexibility. 2 Consistency, efficiency, effectiveness and correct scope. 10 S 1 Which of the following is a list of characteristics of good design? 1 * Efficiency, redundancy, functionality and usability. 1 S 1 Which of the following is a measurable objective? 1 To despatch all orders received before 11.00 am on the same day. 2 To despatch all orders received before 11.00 am on the same day. 2 To despatch orders more quickly. 3 To improve customer satisfaction. 12 S 1 The maximum length of the companyName attribute when printed will be 40 characters. 3 The Terminum length of the companyName attribute when printed will be 40 characters.		3
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1		
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Consistency, efficiency, effectiveness and correct scope. 10 S 1		2
Consistency, efficiency, effectiveness and correct scope. 10 S 1		
Which of the following is a list of characteristics of good design? 1		3
Which of the following is a list of characteristics of good design? 1		
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1		
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2		1_
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2 There will be a class called Client in the Agate system. 3	-	_ '
3		2
The Olient sleep has an attribute as the discourse with the con-		3
The Client class has an attribute called companyName.		
13 S 1		13 S -
Which of the following is claimed as an advantage of iterative development processes?		
1 *		
Risk mitigation—by identifying technical problems early on.		
2		2
Logical design—by producing a design that is not tied to the physical implementation. 3		2
Diagram separation—by making it possible to use different kinds of diagrams in analysis from those used in design.		
14 S 1		
Which of the following is not a characteristic of a maintainable design?		1
1 *		
		1 2





	The developed program code and the design model are kept in sync.							
	3							
		The design and program code are well documented.						
15								
	Which o	of the following is not a measurable objective?						
	1	*						
		To process more invoices.						
	2							
		To reduce errors made by users by 50%.						
	3							
		To cut response times by an average of 5 seconds.						
16								
	Which o	of the following is not part of detailed design?						
	1	*						
		Allocation of sub-systems to processors.						
	2							
,		Screen and window layouts in the form of user interface classes.						
	3							
'		Allocation of responsibilities to classes.						
17	S 1							
	Which o	of the following is the best description of a design model?						
	1	*						
		It shows how the system will work.						
	2							
		It shows what the system will do.						
	3							
		It shows why the system is required.						
18								
	Which o	of the following might provide a measure of the usability of a system?						
	1	*						
		The number of errors made by users.						
	2							
		The number of errors made by programmers.						
	3							
		The number of bugs found by system testers.						
19								
	Which	statement is an example of logical design?						
	1	*						
		Communication between the Agate system and the company accounts system will be by passing messages.						
	2							
		There will be a message sent to the accounts system called NewInvoice, which will be formatted in XML, and each invoice will						
		have a six-digit invoice number allocated by the accounts system.						
	3							
		Communication between the Agate system and the company accounts system will use the OpenJMS Java message server with						
		persistent storage of messages provided by the MySQL database.						
20								
	Which	statement is true?						
	1	*						
		Iterative processes such as the Unified Process give phases different names from activities to allow the same activities to take						
		place in different phases.						
	2							
		Iterative processes such as the Unified Process give phases different names from activities to confuse students.						
	3							
		Iterative processes such as the Unified Process give phases different names from activities because they share the same						
		namespace and must be unique.						

TCL The Computer's Ltd.

J2EE/TCLD-01M/R18/01

Online Test Instructor and Examiner: MD. ABDUL BARI



UML ::	Chap-	.13 (3-1)
1	_	
	A sche	duler provides which of the following facilities?
	ı	It can be used to ensure that each thread of control operates within the constraints on its response time.
	2	the carried used to cristic that each thread of control operates within the constraints on its response time.
		It is useful for allocating computer-processing resources when time constraints are not tight.
	3	
,		It determines which parts of the system execute in a pre-determined sequence.
2	S 1	
		Model-View-Controller architecture which of the following best describes the role of the Model?
	1	
		It informs each view when model data has changed.
	2	It ensures that the view updates its presentation of data.
	3	it ensures that the view updates its presentation of data.
		It accepts user input in the form of events, and triggers the execution of operations.
3	S 1	
	The ad	vantages of the Model–View–Controller architecture include which of the following?
	1	*
		It supports diverse styles of view and controller.
	2	
		It is best suited to process control applications.
	3	
		It places complex functionality in the controller components.
4	S 1	
4		ocation of a system to multiple processors involves which of the following?
	1	*
١	<u> </u>	Concurrency requirements for each sub-system should be identified.
	2	
'		Each processor must use local data only.
	3	
		Each processor must be able to operate independently.
5		
		b-division of an information system into sub-systems brings which of the following benefits?
	1	
	2	It makes the system easier to maintain.
		The constructed system will be smaller and hence easier to maintain.
	3	The constructed system will be smaller and hence easier to maintain.
		It improves the performance of the system.
6	S 1	
	When	constructing a layered architecture which of following is not a specific consideration?
	1	*
		Maintaining a consistent level of granularity for sub-systems.
	2	
		Maintaining the interfaces for each layer.
	3	
		The further sub-division of complex layers.
7	S 1	of the following is a property of a broker prohitecture?
	vvnich 1	of the following is a property of a broker architecture?
		It hides the server components from the client components.
		it made the server compensation than the electric compensation.





	2									
		It improves performance while providing a client component with services.								
	3									
		It acts a server component.								
		·								
8	S 1									
		of the following is considered to be a major element of system design?								
		*								
	1									
		Standards for code development and human computer interaction are determined.								
	2									
		Class diagrams are mapped onto tables in a relational database management system.								
	3									
		Data management classes are identified.								
9	S 1									
		of the following is consistent with Buschmann's definition of a software architecture (Buschmann et al., 1996)?								
		* Solition Solitio								
	1									
		Software architecture describes the relationships between the components of the system.								
	2									
		The software architecture only determines the software sub-systems.								
	3									
		Software architecture determines the look and feel of an application.								
10	S 1									
		of the following is true about a closed layered architecture?								
	1	the following is true about a closed layered architecture:								
	ı									
		Dependencies between the layers are minimized.								
	2									
	_	The architecture is less open to change.								
	3									
		A layer may only communicate with any of the layers beneath it.								
11	S 1									
	Which o	of the following is true about an open layered architecture?								
	1	*								
		It is less easy to maintain.								
1	2	it io 1000 dady to maintain.								
	2	Contains a sufficient case on each be an advised								
		System performance may be reduced.								
	3									
		It is more open to change.								
12	S 1									
	Which o	of the following statements is true about a client–server architecture?								
	1	*								
	-	The client requests services from the server.								
1	2	The short requests surface from the correct								
l		The client interface must be specified first.								
		The dient interrace must be specified first.								
	3									
		The server only provides the functionality required by the client.								

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UML ::	Cha	ap-1	14 (3-1)			
		-					
1	S	1	uloti	on in he	ot or	oforood by wh	ich of the following decisions regarding object visibility?
•	1	apsi	*	on is be	ester	norced by wr	lich of the following decisions regarding object visibility?
l			All	attribute	es are	private and	public operations are kept to a minimum.
[2	_					
r	2		All	attribute	s an	d operations	are private.
l	3		Λ ΙΙ	044 mile 114 a		n militata and	all apprehians are public
		L	all operations are public.				
2	S	1					
	Goo	d co	oupl	ing is b	est cl	naracterised l	by which of the following?
Į	1		*				
ſ	2	_	Kee	eping th	e nur	nber of mess	age types between objects to a minimum.
l			Ens	surina th	nat si	ıb-classes ar	e not strongly linked to their superclass.
[3	_					
			Ens	suring th	nat o	erations in th	ne same class are linked.
	<u></u>	۱ 🖈		- 1			
3	S	1 , ma	nv.	collectio	n cla	sees could se	ensibly be used to implement a two-way many-to-many association?
	1	1116	*	CONCOUR	ni cie	3303 00010 3	chisions be used to implement a two way many to many association:
ı			Tw	٥.			
[2						
ſ			Tw	or mo	re.		
l	3		On	<u> </u>			
		L	On	·.			
4	S	1					
		ere i		depend	lency	constraint be	etween two or more attributes which of the following statements applies?
Į	1		* Λη	, chang	o to t	ho value of a	ny of the attributes may require the other dependent attributes to be updated by one or more
						perations.	iny of the attributes may require the other dependent attributes to be updated by one of more
	2	_	-,		J		
			The	value	of no	ne of the attri	butes should be changed.
l	3		If (I		- (-		had a Sankara and the could be a substantial to the country of the
		L	IT tr	ie value	OT O	ne of the attri	butes is changed then all the others must be updated by one or more synchronizing operations.
5	S	1					
			κον	Substitu	ution	Principle is b	est described by which of the following?
[1		*		ĻĪ		
ſ	2	_	A d	erived o	bjec	t may be trea	ted as if it is the base object.
Į			h A	erived o	hiec	t should be re	eplaced by its base object.
[3						1
			Dei	ived ob	jects	should be us	ed instead of base objects.
6	S	1 n ic	اد	IMI inte	orfoc	e used?	
	1	1110	*	ZIVI∟ IIILE	Jiau	, uocu:	
l			It d	escribes	s an i	nterface that	a class may offer to another class.
[2						
ı			lt d	escribes	s bou	ndary classe	S.
Į	3		It 4	escribe	s the	human-comp	outer interface.
		Į	n u	0001106		maman comp	mondo.
7	S	1					
1					_	designed in o	detail the signature of each operation has to be specified. Which of the following statements is





	1	*								
		The	operati	on n	ame and the number of parameters are part of the operation signature.					
	2		•							
		Fac	h opera	tion	in a class has the same signature.					
	3	Luc	л орста	1011	The state the sum of signature.					
		۸ -			house true assessing a with the cases a gare					
		AC	iass may	y no	have two operations with the same name.					
8										
	Which of	of th	e followii	ng b	est describes when primary operations should be shown on class diagrams?					
	1	*								
		Prir	nary ope	erati	ons are shown on design class diagrams if they are part of the public interface of the class.					
	2									
		ΑII	orimary	onei	ations are shown on class diagrams in design.					
	3	7	J	<u> </u>	and the state that th					
		Driv	nory or	orot:	and are chown in class diagrams only if they modify attribute values					
		FIII	nary ope	Hall	ons are shown in class diagrams only if they modify attribute values.					
_		1	-	r						
9										
	Which o	of th	e followii	ng is	a beneficial consequence of good cohesion in a class?					
	1	*								
		The operations in the class will be easier to maintain.								
	2									
		The	attribut	es ir	the class will only be accessed by the operations of that class.					
	3									
'		The	class w	chibit high levels of encapsulation.						
10	S 1									
		of the	- followi	na s	atements best describe the application of referential integrity during object design?					
	1	*	3 10110 1111	l g c	demons see describe the approximent of the ordinar mognly during espect design.					
		Δn	ohiest ~	121/1	only refer to another object if they share a link.					
	2	AII	object II	iay (Thy folds to another object if they share a link.					
		10/1-	an an al		is deleted all objects to which it refers must be deleted					
		vvn	en an ol	Ject	is deleted all objects to which it refers must be deleted.					
	3	_								
		Ref	erential	inte	grity only applies for one-to-one associations.					
11	S 1									
	Which of	of th	e followii	ng s	atements best describes what is involved in the task of designing associations?					
	1	*								
		It is	concerr	ned	vith how links between objects should be implemented.					
	2									
'		Its	main foc	us is	determining the multiplicity of the associations.					
	3									
١		It is	concerr	ned i	with specifying operations that may use the links between objects.					
		11113	COLICCII	iou	that opening aperations that may use the links between objects.					



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UML :: Chap	o-15 (3-1)							
	1							
	ern is normally described in the format of a pattern template. Which of the following statements best describes the forces of a							
patte	n?							
1	*							
	The forces embody the constraints that must be addressed by the solution.							
2								
	The forces describe why it is important to find a solution to the problem							
3								
	The forces are the constraints that solution is unable to resolve.							
2 S	l							
	ral key principles underlie the use of patterns. Which of the following is not a key principle involved in the use of patterns?							
1	Conformance testing.							
2	Conformance testing.							
	Abstraction.							
3	Amortiaction.							
	Separation of concerns.							
	Superiori di concomo.							
3 S								
	of the following best describes an advantage of the Singleton pattern?							
1	*							
	The pattern can be used to ensure that no more than a fixed number of instances of the Singleton class are created.							
2								
	Using the pattern always makes a system easier to maintain.							
3								
	When the pattern is used global data can be accessed more quickly.							
	1							
	of the following best describes when to use the State pattern?							
1	*							
	The pattern may be used when a class has many states.							
2	The college was the conductor of the conductor of the college was the college							
	The pattern may be used when a class has many operations.							
3	The pattern may be used when an object appears to change class at run-time.							
	The pattern may be used when an object appears to change class at furfilme.							
5 S								
	of the following is not an advantage of the State pattern?							
1	*							
	The Singleton pattern may be used with the State pattern.							
2								
	State behaviour is localized.							
3								
	State transitions are made explicit.							
6 S	1							
	of the following is not an issue that should be considered before using a pattern?							
1	*							
	It is preferable to use patterns by themselves.							
2								
	If a simpler solution exists it should be used in preference to the pattern.							
3	It is important that the contact of the problem is consistent with the contact of the matter.							
	It is important that the context of the problem is consistent with the context of the pattern.							
7 S	1							
	of the following is not one of the categories defined for the GOF patterns?							
1	* *							
<u> </u>								





		Sta	tic.					
	2							
'		Cre	ational.					
	3							
'		Beł	navioura	l.				
	,							
8	S 1							
	Which o	of th	e followi	ng s	atements best describes the relationship between patterns and frameworks?			
	1	*						
'		A fr	amewor	k ma	ay involve many patterns.			
	2							
,		A fr	amewor	k is	more abstract than a pattern.			
	3							
'		Ар	attern m	ay ii	ncorporate one or more frameworks.			
	'							
9	S 1							
	Which o	of th	e followi	ng s	atements is most appropriate when using a pattern during information systems development?			
	1	*						
		The	e pattern	sho	uld be implemented with names that are meaningful in the context of the application.			
	2							
		The	pattern	mu	st be used without any changes to its overall structure.			
	3							
		The	names	of th	ne classes in the pattern should be given the general names from the pattern so that their roles are unambiguous.			
10	_							
	Which o		e followi	ng s	atements is true about the Composite pattern?			
	1	*						
		The	pattern	ma	xes it easier to add new leaf subclasses.			
	2							
		The	pattern	mu	st be used in conjunction with the Singleton pattern.			
	3							
	The pattern makes it easier to add new operations to each of the leaf subclasses.							

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UML ::	Chap-	.17 (3-1)
1	S 1	
		ary classes will usually have a dependency on classes in some kind of user interface package, such as the Java Abstract wing Toolkit or the Microsoft Foundation Classes. What kind of dependency is this likely to be?
	1	*
		«import»
	2	
		«realize»
	3	
		«include»
2	S 1	
		s recorded in an event–action table?
	1	
		Current states, events that can occur in each state, the actions associated with the combination of state and event, and the next
		states after the actions have taken place.
	2	The actions that shire to some control the account that takes along an account of the control to
		The actions that objects can carry out and the events that take place as a result of those actions.
	3	Events that objects can respond to and the actions that take place in response to those events.
		Events that objects can respond to and the actions that take place in response to those events.
3	S 1	
		s the presentation layer concerned with?
	1	*
		Presenting the attribute values of objects to the user and other systems.
	2	
		Storing the data represented by the attribute values of objects.
	3	
		Acting as an interface between the tiers of the three-tier architecture.
4	S 1	
	What is	s the purpose of the history indicator in a statechart?
	1	*
		It shows that the state nested within another state will be recorded, and if a transition is made back to the history indicator, then
		the object will return to the recorded state.
	2	
		When a transition enters the nested state it will restart at the start state.
	3	
		If a transition is made to the history indicator then the object will return to the immediately preceding state, as if the transition had
		never happened.
5	S 1	
	1	*
	'	The arrow head of the message points at the object at the top of the lifeline.
	2	The direw head of the message points at the object at the top of the memo.
		The arrow head of the message is open.
	3	
		A large 'C' for 'Constructor' is shown on the object lifeline.
		3
6	S 1	
		otation is used in a sequence diagram to show that an object instance is destroyed as a result of receiving a message?
	1	*
		A large 'X' is shown on the lifeline.
	2	
		The arrow head of the message is open.
	3	
		A large 'D' for 'Destructor' is shown on the lifeline.





7	S	1														
		h o	f the	follow	ing b	est o	describe	s a horiz	zontal pr	ototype?						
	1		*		<u> </u>	<u> </u>		***				1.22				
1	_	- 1	A ho	rizont	al pro	ototy	pe deals	with a s	single la	yer of a la	ayered ar	chitecture	е.			
	2	-	Δho	rizont	al nr	ototvi	مو طمعاد	only wi	th the us	ser interfa	200					
	3	+		711201110	ai più	loty	oc acais	Offiny Wi	ui uic us	oci interio	100					
			A ho	rizont	al pro	ototvi	oe takes	one sul	o-svsten	n and de	velops it a	across all	the layers	S.		
		L							,							
8	S	1														
	Whic	h o	f the	follow	ing b	est o	describe	s a throv	waway p	rototype	?					
	1		*			<u> </u>									4 1 1	
1	2	- 1	A th	rowaw	ay p	rototy	pe is di	scarded	after it r	nas been	used to t	est out s	ome aspec	ct of	the design.	
		-	A th	rowaw	av n	rototy	ne take	s one si	ıh-syste	m and de	evelons it	across a	Il the layer	rs		
	3	Ť		onan	u, p		ypo tarto	0 0110 00	ab byoto	m una a	ovelope it	40,000 4	ii tiio layor			
'			A th	rowaw	ay p	rototy	pe is us	sed to te	st the de	esign of o	bject del	etion med	chanisms.			
								,								
9	S	1														
		h o	f the	follow	ing t	est o	describe	s a verti	cal proto	otype?						
	1	-	^ \	rtical r	oroto	tı (D.O.	tokoo or	20 0116 0	votom o	nd dovol	one it eer	ooo all th	o lovoro			
	2	+	A VE	rucar	DIOIO	lype	takes or	ie sub-s	ystem a	na aevei	ops it acr	บรร สม เก	e layers.			
			A ve	rtical	oroto	tvpe	is disca	rded afte	er it has	been use	ed to test	out some	aspect of	f the	design.	
	3					1										
			A ve	rtical p	oroto	type	deals w	ith a sin	gle layer	of a laye	ered arch	tecture.				
								1								
10	S	1				<u> </u>		L								
	vvnic 1	n o	the	follow	ing c	an b	e achiev	ed by m	nodelling	the state	e of the u	ser interf	ace?			
	'	-	Con	straini	na th	e he	haviour	of the in	terface t	nreven	t users m	aking err	ors			
	2			Strairii	ig til		naviour	or tric iri	terrace t	o pieven	uscis iii	aking cri	013.			
			Pas	sing re	spor	nsibili	ty for all	validati	on to the	controll	er class.					
	3															
		L	Des	cribing	the	high-	level red	quireme	nts and	main use	r tasks.					
		. 1			ı			1								
11	S	1	f th a	follow	ina	Jame	anto of th	l so Mode	l Miour	Controll	r orobito	atura ia a	oo ontially n	n o rt	of the presentation I	01/0 m2
	1	11 0	*	IOIIOW	ing e	Herrie	ents or tr	ie ivioue	i-view-	-Controlle	er architet	Jule is e	SSEIIIIAIIY F	part	or the presentation i	ayei :
l	•		Viev	v.												
	2															
			Mod	el.												
	3															
			Con	troller.												
12	S	1]								
12		h o	f the	follow	ina i	s me	ant by th	l ne large	rectang	le in the	diagram b	elow?				
					J		ŕ		-		Ü			ır		1
							1:1	_istClie	ents I			:ci	lient		:ClientLister	
	lia	-+ Λ	li C	lients	/ al	١.	"		<u> </u>							
		مراد		nents	(U	<u> </u>		<u> ►</u>					<u> </u>	_		•
									aClien	nt := de	tNextC	lient()	!			
								1 11					⊣			
									name	:= get1	Name())	Ų			
									- 1100	: 4N I -			Π			
									addCl	ientiva	me(na	me)	Ϊ			
													i		-	
													<u> </u>		<u> </u>	
								X					l* [whil	le n	nore clients]	
								•	-				•		•	
	1	П	*													
'			The	messa	ages	in th	e rectan	gle are i	repeated	d						
	2															



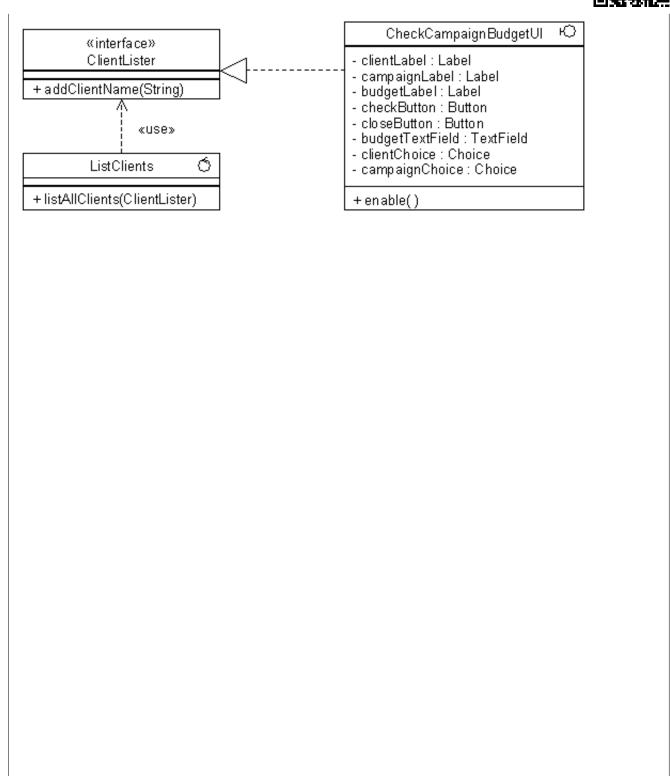


		The messages within the rectangle result in the destruction of the :ListClients object.
	3	
'		The messages in the rectangle are all sent by the same object.
13	S 1	
		of the following is not a kind of prototype?
	1	*
		Lateral.
	2	
١	_	Horizontal.
	3	
	U	Vertical.
		Voluda.
14	S 1	
		I I I I I I I I I I I I I I I I I I I
	1	
	•	The state behaviour of the interface is different from the state behaviour of the business objects.
	2	The state behaviour of the interface is different from the state behaviour of the business objects.
l		For classes to be reusable they should not be tied to a particular way of displaying the attribute values of instances.
	3	To diasses to be reasone they should not be tied to a particular way of displaying the attribute values of instances.
	3	There is no one standard layout for the attributes of business objects, so the display is better handled by separate classes.
		There is no one standard layout for the attributes of business objects, so the display is better flandied by separate classes.
15	S 1	
13		I I I I I I I I I I I I I I I I I I I
	1	in the following is not a reason for using prototyping in the design of the user interface?
	ı	Visual development any ironments can be used to blur the distinction between the interface and the business legis
	2	Visual development environments can be used to blur the distinction between the interface and the business logic.
	2	Alternative approaches to the interferent of a consequence by twiced and
	0	Alternative approaches to the interface of a use case can be tried out.
	3	
		Guidelines for the design of the interface can be tested.
40	0 4	
16	S 1	
		of the following is the notation for the deep history indicator?
	1	
		H* in a circle.
	2	
		H in a circle.
	3	
		«history» in a round-cornered rectangle.
17	S 1	
		of the following is the stereotype for a boundary class?
	1	
		
	2	
		()
	3	
		\sim
40	6 4	
18		
	vvnich	of the following statements best describes the excerpt from a class diagram shown below?



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CheckCampaignBudgetUI implements the ClientLister interface. ListClients uses the operations of the interface when sending

1



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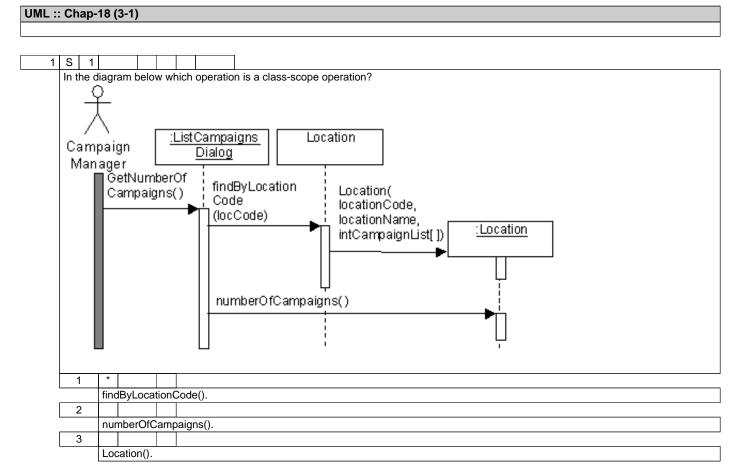
		messages to CheckCampaignBudgetUI.
	2	
	3	CheckCampaignBudgetUI inherits its behaviour from ClientLister. ListClients contains one or more ClientListers.
	3	ListClients inherits its behaviour from ClientLister. CheckCampaignBudgetUI is a user interface class because of its relationship
		with ClientLister.
19		
	Which of	of the following types of class stereotype is always found in the presentation layer?
	ļ ļ	Boundary.
	2	
		Control.
	3	Entity.
		Enuty.
20	S 1	
		of the objects in the diagram below would need to implement the ItemListener interface in order to respond to the
	itemSta	ateChanged(evt) message?
		Q
	_	\overline{T}
	/	^\
	Car	npaign
		nager <u>clientChoice</u> :CheckCampaign :CheckCampaign
	IVIC	:Choice BudgetUI Budget
		select client _ itemState
		Changed(evt) _ clientChoice]
		clientSelected()
		∥
	1	* CheckCampaignBudgetUI.
	2	CheckCampaighBudgetOi.
		clientChoice:Choice.
	3	
		CheckCampaignBudget.
21	S 1	
21		
	1	*
		Observer, Composite and Strategy.
	2	Madel View and Centraller
	3	Model, View and Controller.
		Façade, ItemListener and Controller.
22		
	Why ar	e statecharts used to model the user interface?
	ı	To model the permitted states of the user interface and the events that cause the user interface to change state.
	2	12 miles and a state of the age. Miles and the organis that odded the door miles and organize state.
		To model the lifetime of all the user interface classes beyond the existence of a particular instance of the interface.
	3	
		To show the sequential view of the user working through the user interface from top to bottom.

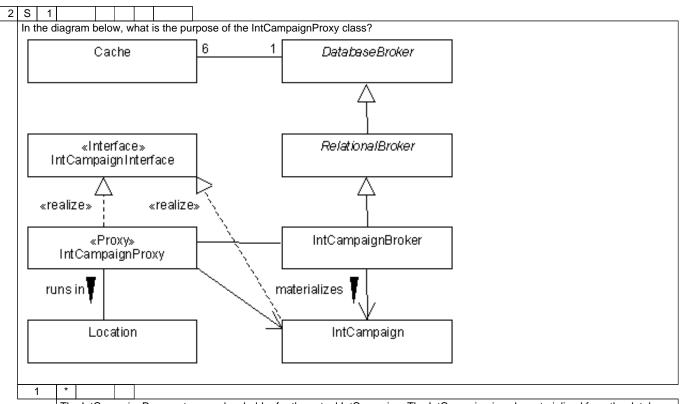


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Questions List





The IntCampaignProxy acts as a placeholder for the actual IntCampaign. The IntCampaign is only materialized from the database when required.





	2	
		The IntCampaignProxy contains the IntCampaignBroker object.
	3	
		The IntCampaignProxy decouples the IntCampaign from the cache.
3	S 1	
		s a hashing algorithm?
	1	*
		A way of converting record keys into numeric block addresses in a range of values.
	2	
		1. A way of padding data in fixed length fields with the ASCII hash character '#'
	3	
		A way of separating fields in records using the ASCII has character '#' as a delimiter.
4		
	What is	meant by normalization?
	1	*
		Converting complex data structures into tables that meet clearly defined criteria.
	2	
		Removing dependencies from data in tables.
	3	
		Converting class diagrams into entity-relationship diagrams.
5		
		of the following best describes a throwaway prototype?
	1	Attackment of the second of th
		A throwaway prototype is discarded after it has been used to test out some aspect of the design.
	2	A throughout protety no taken and out to make and develope it corresponds the layers
		A throwaway prototype takes one sub-system and develops it across all the layers.
	3	A throwavery protetype is used to test the design of chiest deletion mechanisms
		A throwaway prototype is used to test the design of object deletion mechanisms.
6	S 1	
		of the following best describes a variable length record structure?
		of the following book december a variable length receive of detailer.
		*
	1	Each record is made up of a number of fields, each of which may have a maximum length but has a minimum length of zero
		Each record is made up of a number of fields, each of which may have a maximum length but has a minimum length of zero bytes. Either fields are separated by special delimiter characters or the length of each field is held in the record structure.
		Each record is made up of a number of fields, each of which may have a maximum length but has a minimum length of zero bytes. Either fields are separated by special delimiter characters or the length of each field is held in the record structure.
	1	
	1	bytes. Either fields are separated by special delimiter characters or the length of each field is held in the record structure.
	1	bytes. Either fields are separated by special delimiter characters or the length of each field is held in the record structure. Each record is made up of a number of fields, each of which has a fixed length in bytes. If the data in a field does not fill that many
	2	bytes. Either fields are separated by special delimiter characters or the length of each field is held in the record structure. Each record is made up of a number of fields, each of which has a fixed length in bytes. If the data in a field does not fill that many
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7	1 2 3	bytes. Either fields are separated by special delimiter characters or the length of each field is held in the record structure. Each record is made up of a number of fields, each of which has a fixed length in bytes. If the data in a field does not fill that many bytes, it is padded with a special character, usually null or space. Each record is tagged with a name in special characters. The end of the field is usually marked as well. Fields can contain other fields in complex nested structures.
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7	1 2 3 S 1 Which 0 1	bytes. Either fields are separated by special delimiter characters or the length of each field is held in the record structure. Each record is made up of a number of fields, each of which has a fixed length in bytes. If the data in a field does not fill that many bytes, it is padded with a special character, usually null or space. Each record is tagged with a name in special characters. The end of the field is usually marked as well. Fields can contain other fields in complex nested structures. of the following best describes serial file organization? * Each record is written onto the end of the file. If a record is to be deleted, the file must be copied from the start to the deleted record, which is skipped, and written back to disk.
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	3 S 1 Which (a) S 1 Which (b)	bytes. Either fields are separated by special delimiter characters or the length of each field is held in the record structure. Each record is made up of a number of fields, each of which has a fixed length in bytes. If the data in a field does not fill that many bytes, it is padded with a special character, usually null or space. Each record is tagged with a name in special characters. The end of the field is usually marked as well. Fields can contain other fields in complex nested structures. of the following best describes serial file organization? *
	3 S 1 Which 0 1 2 S 3	bytes. Either fields are separated by special delimiter characters or the length of each field is held in the record structure.
	3 S 1 Which (a) S 1 Which (b)	bytes. Either fields are separated by special delimiter characters or the length of each field is held in the record structure. Each record is made up of a number of fields, each of which has a fixed length in bytes. If the data in a field does not fill that many bytes, it is padded with a special character, usually null or space. Each record is tagged with a name in special characters. The end of the field is usually marked as well. Fields can contain other fields in complex nested structures. of the following best describes serial file organization? *
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	3 S 1 Which 0 1 S 1 Which 0 1	bytes. Either fields are separated by special delimiter characters or the length of each field is held in the record structure.
	3 S 1 Which 6 1 S 1 Vhich 6 1	bytes. Either fields are separated by special delimiter characters or the length of each field is held in the record structure. Each record is made up of a number of fields, each of which has a fixed length in bytes. If the data in a field does not fill that many bytes, it is padded with a special character, usually null or space. Each record is tagged with a name in special characters. The end of the field is usually marked as well. Fields can contain other fields in complex nested structures. of the following best describes serial file organization? *





9	S 1	
		of the following is a valid list of types of file organization?
	1	*
		Serial, sequential and random.
	2	Seria, Sequentia and Fanconi.
		Tagged, serial and variable length.
	3	ragged, serial and variable length.
	<u> </u>	Leghed index on the long pariet
		Hashed, index-sequential and serial.
40	0 4	
10	S 1	
		of the following kinds of file would be used to store system settings?
	1	
		Parameter file.
	2	
		Temporary file.
	3	
		Master file.
	-1.	
11	S 1	
		of the following kinds of objects are used in an object-oriented system?
	1	
		Both persistent and transient objects.
	2	
		Persistent objects only.
	3	
		Transient objects only.
12	S 1	
		of the following statements best describes how a database stores data?
	1	
		Databases provide a layer of abstraction between the way that data is presented to the user and the way that it is stored in files.
	2	
		Relational databases store data in tables, and each table is a file.
	3	
		Object databases store data in objects, and each object is a file.
	_	
13	S 1	
		of the following statements best describes what is meant by persistent data?
	1	
		Data that must be stored after a program stops running and be available to other users.
	2	
		Data that only exists while a program is running.
	3	
		Data in objects that keep trying to save themselves to disk storage.
	<u> </u>	
14	S 1	the Charles have a favoral structure in an Alice and Marie Charles
		of the following types of record structure is used in an XML file?
	1	Tanad
		Tagged.
	2	
		Fixed length.
	3	Headen and date?
		Header and detail.
1.5	٠ ١ ٠	
15	S 1	ght an abject exicuted existence a relational DRMC2
	-	ght an object-oriented system use a relational DBMS?
	1	Many and in the property of the control of the property of the
1		Many organizations have existing relational databases containing existing business data.
	2	Object databases are too complicated to use
		Object databases are too complicated to use.
1		
	3	Relational databases are inherently better than object databases for business applications.

Estd. 1983

J2EE/TCLD-01M/R18/01

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UML ::	: Chap	·19 (3-1)
1	S 1	
		of the following best describes white box testing?
	1	
		It tests the internal workings of the software and whether the software works as specified.
	2	It too to what has the positive as a read vector that contract outputs for an edificient up
	2	It tests whether the software produces the correct outputs for specific inputs.
	3	It tests whether the software can be used 'out of the box' by end-users.
		It tests whether the software can be used out of the box by end-users.
2	S 1	
		of the following examples conforms to Hungarian notation?
	1	*
		iLength.
	2	
		length.
	3	
		LengthInt.
3		
	Which	of the following examples conforms to the standard for attribute names used in the book and generally in Java programming?
	1	*
		budgetTextField.
	2	
		budgetTextField().
	3	
		BudgetTextField
4		
		of the following examples conforms to the standard for class names used in the book and generally in Java programming?
	1	SalesOrderProxy .
	2	SalesOrderFloxy .
		Sales_Order_Proxy.
	3	
		salesOrderProxy.
		adiosoracii loxy.
5	S 1	
		of the following is not likely to be a section in a post-implementation report?
	1	*
		Positive experiences.
	2	
		Candidate components for reuse.
	3	
		Test plan.
6		
	Which	of the following is true of the diagram below?
	Г	
		□ Production
	▎┌┷	□ scheduler
		Staff planner





		
	1	
'		he component Staff planner has a dependency on the component Production scheduler.
	2	The component stan plants had a appendix by an and component i reduction conceasion.
		Declaration calculation ask distance describes a superior the company of Claff plants
		he component Production scheduler has a dependency on the component Staff planner.
	3	
		he software component Staff planner runs on the hardware component Production scheduler.
7	S 1	
	Which	the following statements best describes beta testing?
	1	T T
	'	acting applications in a live any represent
		esting software applications in a live environment.
	2	
		esting individual classes and then the interaction between instances of those classes in programs.
	3	
		esting software applications in a simulated environment.
		0 11
8	S 1	
- 0		the fall wine statements heat the wine what is recent by a CASE to all
		the following statements best describes what is meant by a CASE tool?
	1	
		software package that maintains graphical models and other data about systems, and may generate program code.
	2	
		software tool for drawing diagrams.
	3	
		software package that enables a developer to produce a graphical user interface by dragging and dropping components onto
		orms.
_		
9	S 1	
	Which of	the following statements best describes what is meant by a configuration management tool?
	1	
		software package that keeps track of the dependencies between components and the versions of source code and resource
		es used to produce a particular release of software.
	2	
		software package that enables a developer to produce a graphical user interface by dragging and dropping components onto
		orms.
	3	
		software package that builds archives or zip files that can be used with an installation tool to install software onto a computer.
10	S 1	
	Why sh	Ild maintenance of an application be controlled?
	1	The state of the special state of the state
	'	and a to accept the exect of changes and the impact of changes on the rest of the system
1		order to assess the cost of changes and the impact of changes on the rest of the system.
	2	
		o maintain a steady income for the software company that developed the application.
	3	
		o avoid maintenance activities interfering with work on developing new systems.

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UML ::	: Chap-	20 (3-1)
1	S 1	
	1	on et al. suggest there are six stages that organizations go through in developing a culture of reuse. Which of the following is their
	list of s	tages?
	1	Non-Standard and some black have decreased and an electronic and State decreased and S
		None; informal code reuse; black-box code reuse; managed workproduct reuse; architected reuse; domain-specific reuse-driven
		organization.
	2	Business; user; data; solution; component; repository.
	3	business, user, data, solution, component, repository.
		Heroic individual reuse; informal code reuse; organized group code reuse; architecture-driven reuse; component-driven reuse;
		repository-based reuse.
		Topository Subsultation.
2	S 1	
		o Allen and Frost regard as central to their model for the development of reusable code components?
	1	*
		A repository.
	2	
		Java.
	3	
		The Façade pattern.
3	S 1	
	Which	of the following analogies is used by Allen and Frost?
	1	*
		Sowing and harvesting reusable components.
	2	
		Hiding reusable components behind a façade.
	3	
		Cloning reusable components from existing systems.
4	S 1	of the following is a good definition of a reusable component?
	1	the following is a good definition of a redsable component?
		A type class or other workproduct that has been specifically engineered to be reusable.
	2	Type class of other workproduct that has been specifically engineered to be reasable.
		Anything that appears in a component diagram.
	3	7 thy a may a may appeared in a component all agrams
		A class or abstract superclass designed to be reused through inheritance.
5	S 1	
		of the following is cited as a reason for the failure of object-oriented systems to have achieved the expected levels of reuse?
	1	*
		Organizations plan for reuse too late. The architecture of a system needs to be designed to support reuse and the organization
		needs to be structured to support reuse.
	2	
		Reuse does not actually work. There are no systems that are enough like others to benefit from the reuse of components.
	3	
		Reuse only works for languages like C and Fortran in which libraries of reusable functions and procedures can be developed.
6	S 1	Cha fellowing in a set a group of in the Oak of Bornesting O
		of the following is not a process in the Select Perpective?
	1	the repository process
		the repository process.
	2	The solution process.
	3	The solution process.
		The component process.
		The component process.





7	S	1									
	Whic	h o	th	e foll	owi	ng i	s not	a stanc	ard that helps to support reusable components?		
	1		*								
•			OR	ORCA (Object Reusable Component Architecture).							
	2										
			SO	AP (Sim	ple	Obje	ct Acce	ss Protocol).		
	3										
			CO	RBA	(C	omn	non (Object F	equest Broker Architecture).		
8	S	1									
	Whic	ch o	th	e foll	owi	ng i	s not	an argu	ment for reuse?		
	1		*								
									developers to maintain their high salaries by claiming to have developed software that has in fact		
			bee	en de	evel	ope	d by	someor	e else.		
	2										
		- 1					equir	ements	of a project can be met by existing components then the time spent developing those components		
			car	be:	sav	ed.					
	3										
									en used and tested in another application can be reused then the time spent testing and quality		
		L	ass	urin	g th	e co	mpo	nents ca	an be saved.		
		- 1									
9	S	1				L .	Щ				
						ng k	inds	of orga	nization is likely to benefit from developing a reuse-driven software development process, according to		
	Jaco	DSO	n e	t al. :		ı	ı				
	1	-		<u> </u>	- " -			-1	and the same and the same and the same and the same		
			Org	ganız	atic	ns p	produ	icing ha	rdware products with embedded software.		
	2	_		- 11 -	- 64				and a standard and a standard a		
			Sm	all s	OTTW	are	com	panies į	producing one-off products.		
	3	_							and a few and the control of the control		
		L	G0	verni	mer	nt ae	partr	nents a	eveloping software in-house.		
10	S	1		1			1 1				
10		- 1	ole	2000		ino	nnro	orioto lo	l vel at which to try to achieve reuse?		
	1	ale	*	15568	o ai	IIIa	pproj	Jilale le	ver at which to try to achieve reuse?		
	'	+	۸ ++ ۱	ibute	20.0	nd a	2000	siations	of classes often couple them to other classes.		
	2	-	~tti	IDUIG	. s a	liu e	13300	iations	of classes often couple them to other classes.		
		-	Oh	iecte	not	cla	2000	are quit	able for reuse, as they are the things that are used in real systems.		
ı	3	-	<i>Ο</i> υ,		1101	Cia	3353	are sull	able for rease, as they are the tillings that are used in real systems.		
		\dashv	Inte	rfac	es r	athe	r tha	n class	es should be reused, and then classes developed to implement them		
			Inte	erfac	es r	athe	r tha	n class	es should be reused, and then classes developed to implement them.		



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UML ::	Chap-	3 (3-1)
1	S 1	
		er the following statements about CASE tools: t CASE tools can perform semantic checks on a set of diagrams modelling an information system.
		t CASE tools can perform syntactic and consistency checks on a set of diagrams modelling information system.
		t CASE tools can perform syntactic checks on a set of diagrams modelling information system.
		of the following is true?
	1	*
		Statements B and C are true.
	2	
		Statements A, Band C are true.
	3	
		Statements A and C are true.
2	C 1	
2	S 1	
	1	*
		Ad hoc coding solutions may be used to address changes in requirements
	2	
		Architectural decisions are difficult to change.
	3	
		Requirements will change during the project.
3	S 1	
		the major challenges during system installation is which of the following?
	1	
		Avoiding unnecessary disruption and minimising the attendant risk of change.
	2	Francisco de et de la companya de la
	2	Ensuring that the new software is correctly installed to use the computer effectively.
	3	Ensuring that both old and new systems run in parallel.
		Ensuring that both old and new systems run in parallel.
4	S 1	
	Some of	of the phases of the Traditional Life Cycle are listed below. Which of the following lists is in the correct sequence for these phases?
	1	*
		System Engineering, Requirements Analysis, Design
	2	
		Construction, Installation and Testing.
	3	
		Requirements Analysis, System Engineering, Design
5	S 1	
	Some o	n the tasks in the general problem-solving model are listed below. Which of the following lists these tasks in the coffect sequence?
	ı	
1	2	
		Problem definition, Finding solutions, Problem redefinition.
ĺ	3	
		Data gathering, Finding solutions, Finding ideas.
6	S 1	
	User in	volvement in software development is important for which of the following reasons?
	1	*
		Users can influence the way a project proceeds by identifying the most acceptable course of action from various alternatives.
	2	
	_	It is cheaper to have users as part of the project team rather than professional software developers.
	3	
		Users understand why the requirements cannot be met.
7	ا ۵	
7	S 1	





1 s concerned with planning information systems development within the context of the organizational strategy. 2 It is concerned with planning the implementation of information systems? 3 It is concerned with planning the implementation of information systems? It is concerned with how information systems can support strategic planning in an organization? Which of following is true about software construction in the traditional life cycle? 1 The design is used to develop program code. 2 The design is used to develop program code. 3 S 1 Which of following is true about the criteria for acceptance tests? 1 Which of tollowing is true about the criteria for acceptance tests? 1 They are best identified at the end of requirements analysis. 2 They are best identified at the end of the design phase. 3 They are best identified at the beginning of the testing phase. 10 S 1 Which of the following but describes the term life cycle model? 1 f It describes the phases through which a development project passes from the inception of the idea to completion of the product and its eventual decommissioning. 2 S 1 It describes the way requirements for an application change at different stages in the life of the organization. 3 S S S S S S S S S		Which	of following describes Strategic Information Systems Planning?
2 It is concerned with planning the implementation of information systems? 3 It is concerned with how information systems can support strategic planning in an organization? 8 S 1		1	*
It is concerned with planning the implementation of information systems? 3			It is concerned with planning information systems development within the context of the organizational strategy.
B S 1		2	It is concerned with planning the implementation of information systems?
It is concerned with how information systems can support strategic planning in an organization? S S 1		3	1. Is concerned with planning the implementation of information systems:
Which of following is true about software construction in the traditional life cycle? 1			It is concerned with how information systems can support strategic planning in an organization?
Which of following is true about software construction in the traditional life cycle? 1	R	S 1	
The design is used to develop program code. 2			I I I I I I I I I I I I I I I I I I I
2			*
Only one programming language could be used. S 1 Relational database management systems are not used. Pelational database management systems and used. Pelational database management systems. Pelational database databases. Pelational database databases. Pelational databases databases. Pelational d			The design is used to develop program code.
Relational database management systems are not used. 9 S 1 Which of following is true about the criteria for acceptance tests? 1		2	
Relational database management systems are not used. Which of following is true about the criteria for acceptance tests? They are best identified at the end of requirements analysis. They are best identified at the end of the design phase. They are best identified at the beginning of the testing phase. They are best identified at the beginning of the testing phase. They are best identified at the beginning of the testing phase. It is describes the phases through which a development project passes from the inception of the idea to completion of the product and its eventual decommissioning. It describes the phases through which a development project passes from the inception of the idea to completion of the product and its eventual decommissioning. It describes the way requirements for an application change at different stages in the life of the organization. It describes how a computerized information system is used during its lifetime. It allows teams of developers with specialist skills to be allocated to a particular phase. It allows teams of developers with specialist skills to be allocated to a particular phase. It makes it more difficult to manage a project. Requirements dange during development after the main system requirements have been agreed and are difficult to accommodate. Requirements change during development after the main system requirements have been agreed and are difficult to accommodate. Requirements change during development after the main system requirements have been agreed and are difficult to accommodate. Requirements change during development after the main system requirements have been agreed and are difficult to accommodate. Requirements change during development after the main system requirements have been agreed and are difficult to accommodate. Requirements change during development after the main system requirements have been agreed and are difficult to accommodate. Requirements change during development project? Requirements change at the stage of the tradit		3	Only one programming language could be used.
Which of following is true about the criteria for acceptance tests? 1			Relational database management systems are not used.
They are best identified at the end of requirements analysis. 2	9	S 1	
They are best identified at the end of requirements analysis. They are best identified at the end of the design phase. They are best identified at the beginning of the testing phase. They are best identified at the beginning of the testing phase. 10 S 1		Which o	of following is true about the criteria for acceptance tests?
They are best identified at the end of the design phase. They are best identified at the beginning of the testing phase. They are best identified at the beginning of the testing phase. It which of the following best describes the term life cycle model? It describes the phases through which a development project passes from the inception of the idea to completion of the product and its eventual decommissioning. It describes the way requirements for an application change at different stages in the life of the organization. It describes how a computerized information system is used during its lifetime. It describes how a computerized information system is used during its lifetime. It allows teams of developers with specialist skills to be allocated to a particular phase. It makes it more difficult to manage a project. It helps identify smaller tasks that can be completely finished. It helps identify smaller tasks that can be completely finished. It helps identify smaller tasks that can be completely finished. It does not allow the use of object-oriented technology. It does not allow the use of object-oriented technology. It separates requirements analysis and design. It separates requirements analysis and design. A systems development project may not involve software development. A systems development project is only concerned with developing a software system.		1	*
They are best identified at the end of the design phase. They are best identified at the beginning of the testing phase. They are best identified at the beginning of the testing phase. Which of the following best describes the term life cycle model? They are best identified at the beginning of the testing phase. Which of the following best describes the term life cycle model? It describes the phases through which a development project passes from the inception of the idea to completion of the product and its eventual decommissioning. It describes the way requirements for an application change at different stages in the life of the organization. It describes the way requirements for an application change at different stages in the life of the organization. They are best dentified at the product and its eventual decommissioning. They are best dentified at the beginning of the development projects? They are best dentified at the beginning of the term if the product and its eventual decommission in the life of the organization of the product and its eventual decommission in the life of the organization. They are a complete in the life of the organization of the product and its eventual project. They are a complete in the life of the organization. They are a complete in the life of the organization. They are a complete in the life of the organization. They are a complete in the life of the organization. They are a complete in the life of the organization. They are a complete in the life of the organization. They are a complete in the life of the organization. They are a complete in the life of the organization. They are a complete in the life of the organization. They are a complete in the life of the organization. They are a complete in the life of the organization. They are a complete in the life of the organization. They are a complete in the life of the organization. They are a complete in the life of the organization. They are a complete in the life of the			They are best identified at the end of requirements analysis.
They are best identified at the beginning of the testing phase. 10 S 1			They are hest identified at the end of the design phase
10 S 1 Which of the following best describes the term life cycle model? 1		3	They are best tachtimed at the ond of the design phase.
Which of the following best describes the term life cycle model? 1 * It describes the phases through which a development project passes from the inception of the idea to completion of the product and its eventual decommissioning. 2 It describes the way requirements for an application change at different stages in the life of the organization. 3 It describes how a computerized information system is used during its lifetime. 11 S 1			They are best identified at the beginning of the testing phase.
Which of the following best describes the term life cycle model? 1 * It describes the phases through which a development project passes from the inception of the idea to completion of the product and its eventual decommissioning. 2 It describes the way requirements for an application change at different stages in the life of the organization. 3 It describes how a computerized information system is used during its lifetime. 11 S 1	10	S 1	
It describes the phases through which a development project passes from the inception of the idea to completion of the product and its eventual decommissioning. 2			of the following best describes the term life cycle model?
and its eventual decommissioning. 2		1	
It describes the way requirements for an application change at different stages in the life of the organization. 3			
It describes the way requirements for an application change at different stages in the life of the organization. It describes how a computerized information system is used during its lifetime. It allows teams of developers with specialist skills to be allocated to a particular phase. It makes it more difficult to manage a project. It helps identify smaller tasks that can be completely finished. It helps identify smaller tasks that can be completely finished. It helps identify smaller tasks that can be completely finished. It helps identify smaller tasks that can be completely finished. It helps identify smaller tasks that can be completely finished. It helps identify smaller tasks that can be completely finished. It helps identify smaller tasks that can be completely finished. It helps identify smaller tasks that can be completely finished. It helps identify smaller tasks that can be completely finished. It helps identify smaller tasks that can be completely finished. It helps identify smaller tasks that can be completely finished. It helps identify smaller tasks that can be completely finished.		2	and its eventual decommissioning.
It describes how a computerized information system is used during its lifetime. It S 1			It describes the way requirements for an application change at different stages in the life of the organization.
11 S 1		3	
Which of the following is a consequence of subdividing the development process? 1 * tallows teams of developers with specialist skills to be allocated to a particular phase. 2			It describes how a computerized information system is used during its lifetime.
1	11	S 1	
It allows teams of developers with specialist skills to be allocated to a particular phase. 2	,	Which o	of the following is a consequence of subdividing the development process?
It makes it more difficult to manage a project. 3		1	
It makes it more difficult to manage a project. 3			It allows teams of developers with specialist skills to be allocated to a particular phase.
12 S 1			It makes it more difficult to manage a project.
Which of the following is a disadvantage of the traditional life cycle? 1		3	
Which of the following is a disadvantage of the traditional life cycle? 1			It helps identify smaller tasks that can be completely finished.
Which of the following is a disadvantage of the traditional life cycle? 1	40		
1	12		of the following is a disadvantage of the traditional life cycle?
accommodate. 2			*
2			Requirements change during development after the main system requirements have been agreed and are difficult to
It does not allow the use of object-oriented technology. 3			accommodate.
3		2	It does not allow the use of chicet oriented technology
It separates requirements analysis and design. 13 S 1		3	it does not allow the use of object-offenced technology.
Which of the following is a true statement regarding a systems development project? 1 * A systems development project may not involve software development. 2 A systems development project is only concerned with developing a software system. 3 A systems development project is only concerned with developing a software system.			It separates requirements analysis and design.
Which of the following is a true statement regarding a systems development project? 1 * A systems development project may not involve software development. 2 A systems development project is only concerned with developing a software system. 3 A systems development project is only concerned with developing a software system.	12	S 1	
1 * A systems development project may not involve software development. 2 A systems development project is only concerned with developing a software system. 3 Software Systems development project is only concerned with developing a software system.	10		of the following is a true statement regarding a systems development project?
2 A systems development project is only concerned with developing a software system. 3			*
A systems development project is only concerned with developing a software system. 3			A systems development project may not involve software development.
3		2	A systems development project is only concerned with developing a seftware system
		3	A systems development project is only concerned with developing a software system.
			A systems development project is only concerned with developing systems for controlling devices or machines.





14	S 1	
	1 1	of the following is an example of a systems development methodology?
	1	*
		The Unified Software Development Process.
	2	
		The traditional life cycle.
	3	The traditional life dyole.
		The Unified Modeling Language.
		The Offined Wodeling Language.
15	S 1	
13		of the following is not a workflow in the Unified Software Development Process?
	1	the following is not a worknow in the Onlined Software Development Process?
		Construction
		Construction
	2	
		Implementation
	3	
		Test
	1 - 1	
16		
	Which	of the following is not an advantage of prototyping?
	1	*
		Prototyping requires no analysis or design.
	2	
		Prototyping is easy to manage.
	3	
		Prototypes may be used to reduce misunderstandings about requirements.
17	S 1	
	Which	of the following is true about system requirements?
	1	*
		They can be used to develop user acceptance tests.
	2	
		They are mainly identified during systems engineering.
	3	
		They change from one phase to another.
		They sharinge from one prince to unduter.
18	S 1	
10		of the following statements is true about a prototype system?
	1	to the following statements is true about a prototype system:
		A prototype system is incomplete or lacks the resilient construction of the final production system.
	2	A prototype system is incomplete or tacks the resilient construction of the linar production system.
		A protety no greater in always disposed defers the final production greater in built
		A prototype system is always discarded before the final production system is built.
	3	David days learness the steam and the build are taking a system.
		Rapid development tools are only used to build prototype systems.
40		
19		
19	Which	of the following statements is true about adaptive maintenance?
19		of the following statements is true about adaptive maintenance? *
19	Which	
19	Which	of the following statements is true about adaptive maintenance? * It is concerned with changing the system when requirements change.
19	Which	of the following statements is true about adaptive maintenance? *
19	Which	of the following statements is true about adaptive maintenance? * It is concerned with changing the system when requirements change.

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UML ::	Chap-	4 (3-1)
1	S 1	
	How do	es generalization differ from inheritance?
	1	*
_		Inheritance is a mechanism by which some OO languages implement generalization.
	2	
_		It doesn't - they are the same thing.
	3	
_		With generalization each class has only one superclass, whereas with inheritance each class has two or more superclasses.
	'	
2	S 1	
,	What do	o all objects have?
	1	*
_		State, behaviour and identity.
	2	
L		Behaviour, data and identity.
	3	
L		Instances, structure and similarity.
	l	,
3	S 1	
		a message protocol or signature?
	1	*
L	-	A message protocol is the interface to an operation.
	2	
L		A message protocol is a valid sequence of keystrokes by a user.
Γ	3	
L		A message protocol is a valid sequence of operations in a series of different objects.
		7. Thousage protects to a valid coquented of operations in a contest of animorals objects.
4	S 1	
		generalization?
	1	
L	•	A kind of relationship between a more general element and a more specific element.
Γ	2	Think of features pointed a more general stement and a more opening comment.
L		A process of broadening the scope of an object, such that it becomes more generally useful.
Γ	3	The second of th
L		A process of collecting together objects into their respective classes.
	Į.	The second of containing together expected into their receptoring discoorting
5	S 1	
		meant by 'transitive operation' in the context of generalization and inheritance?
	1	*
L		A subclass inherits characteristics from all its superclasses at all levels.
Γ	2	
L		An operation in a superclass may be overwritten by a different operation in a subclass.
Γ	3	
L		An operation in a superclass may not be overwritten by a different operation in a subclass.
		This operation in a superstance may not be ever mixed by a different operation in a substance.
6	S 1	
		meant by multiple inheritance?
-	1	*
L	•	Multiple inheritance signifies that a class simultaneously belongs to more than one generalization hierarchy.
Г	2	That the first and the significant and the state of state of state of the state of
L		Multiple inheritance signifies that a class has more than one superclass.
Г	3	manapo minente do digrimo di da di doci naci mere di diri ene esperendo.
L	J	Multiple inheritance signifies that a class can have different superclasses at different times.
		muniple informative signifies that a class can have uniterall superclasses at uniterett titles.
7	S 1	
		the significance of message-passing in an OO system?
F		trie significance of message-passing in an OO system?
L	1	Objects exchange messages in order to communicate with each other
		Objects exchange messages in order to communicate with each other.





[2	
		Messages represent input from users that tells the software system what to do.
	3	
	l	Messages represent output to users that show the results of processing.
8	S 1	
		of the following best describes a type?
	1	*
,		A description of a set of objects with similar behaviours.
	2	
ſ	2	A superclass in a generalization hierarchy.
Į	3	A class with a characteristic that distinguishes it from all other classes.
	l	A class with a characteristic that distinguishes it from all other classes.
9	S 1	
	Which o	of the following best describes abstraction?
	1	
ſ		A representation that contains only relevant details.
Į	2	A representation of something tangible.
[3	A representation of something tangible.
l		A representation that can be stored in a software system.
		· · · · · · · · · · · · · · · · · · ·
10		
		of the following best describes an object?
Į	1	A consent chatraction or thing is an application demain
[2	A concept, abstraction or thing in an application domain.
l		Part of a software system that is entirely unique.
	3	
		A program that represents something tangible in the problem domain.
11	S 1	of the following best describes an object's interface?
	1	the following best describes an object's interface?
l		The complete set of signatures for all the object's operations.
	2	
,		The view that an object presents to users of the system.
Į	3	The Paris that are able to be a with a three able at
		The links that an object has with other objects.
12	S 1	
		of the following best describes encapsulation?
	1	*
		Data within an object can only be accessed by passing a valid message to one of its own operations.
Į	2	
ſ	2	The implementation of an object can only be changed by its original programmer.
Į	3	Data within an object can only be accessed by passing a valid message to its class.
		Data Hilling all object out only be decessed by passing a valid message to its class.
13		
		of the following best describes object behaviour?
Į	1	
ſ	2	What the object is able to do for other objects.
Į	2	What the object is able to do to other objects.
[3	
l		What the object is able to do to itself.
14	S 1	
-		of the following best describes object state?
l	1	The particular condition that an object is in at a given moment, determining its possible behaviours.
[2	The paradalar condition that an object is in at a given moment, actermining to possible behaviours.
l		





	Which class the object belongs to.					
	3	The appropriate of the shired				
		The semantics of the object.				
15	S 1					
		of the following best describes polymorphism?				
Į	1	The capacity of different objects to respond to a similar message in appropriate but different ways.				
	2	The capacity of different objects to respond to a similar message in appropriate but different ways.				
		The capacity of an object to behave in different ways at different times according to its current state.				
	3	The appoint of an elicities and different account a different elicities and all the second accounts and a different elicities and a different elicit				
		The capacity of an object to send different messages to different objects according to their class.				
16	S 1					
		of the following best describes the relationship between an object and its class?				
l	1	* The structure and permitted behaviours of an object are defined by its class.				
[2	The structure and permitted behaviours of an object are defined by its class.				
l		A class is a container that holds a collection of similar objects.				
[3					
		An object is an implementation of a class.				
17	S 1					
	Which o	of the following is a useful set of questions to ask when modelling an object, according to Rebecca Wirfs-Brock?				
	1	* What are Light and John Add Lland				
[2	Who am I, what can I do and what do I know?				
l		Where am I, what am I and who do I know?				
[3					
		What do I have, what can I get and what can I do?				
18	S 1					
	Which o	of the following is a valid reason why it is difficult to design event-driven software in a procedural manner?				
Į	1					
	2	It is difficult to anticipate and design for all possible sequences of use.				
l		Procedurally designed programs are not capable of responding quickly to events.				
	3					
		Procedural programs are only suitable for record-based data structures.				
19	S 1					
	Which o	of the following is not a characteristic of a subclass?				
	1					
[2	A subclass can only have superclasses, it cannot have subclasses of its own.				
l		A subclass inherits all the characteristics of its superclass.				
	3					
		A subclass includes at least one detail that is not shared by its superclass.				
20	S 1					
	Which o	of the following is not a description of a class?				
	1	A set of chirate that callebrate together to self-our construction				
[2	A set of objects that collaborate together to achieve some common objective.				
l		A set of objects that share the same behaviour, attributes, relationships and semantics.				
[3					
		An abstract descriptor for a set of instances with certain logical similarities to each other.				
21	S 1					
		of the following is not a reason for modeling objects?				
Į	1	To congrate data from process				
ſ	2	To separate data from process.				
l		To produce a design for part of a software system.				





	3							
		То	unders	tand	an as	spect of	the application domain.	
22	S 1							
	Which	of th	e follow	ing is	s not	an adva	intage of modular software design?	
	1	*						
		Мо	dular sy	/sten	ns ar	e indepe	ndent of the operating system that they run on.	
	2							
		Мо	dular sy	/sten	ns ar	e typical	ly more reliable in use.	
	3							
		Мо	dular sy	/sten	ns ca	n be im	plemented in small, manageable chunks.	
Г								
23	S 1							
	Which	of th	e follow	ing is	s not	an adva	Intage of using generalization?	
	1	*						
		Ge	Generalization helps to encapsulate classes and subsystems so that their implementation is hidden from other parts of the					
system.								
	2							
		Ge	neraliza	ation	helps	to orga	nize a model so that the degree of similarity between classes is made more explicit.	
	3							
	A generalization hierarchy is easy to extend to fit a changing picture							



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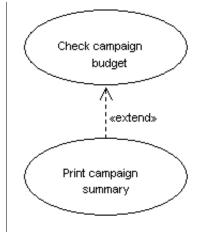
UML :: Chap-	6 (3-1)
1 S 1	
In whice	h of the following circumstances is it not appropriate to use questionnaires?
	There is a need to check how people actually carry out their work.
2	
	The views and knowledge of a large number of people must be obtained.
3	The people who work for the organization are geographically dispersed.
	The people who work for the organization are geographically dispersed.
2 S 1	
What is	s shown in the following diagram?
_	+ $+$
	Л — D Л
/	
	npaign Campaign
Mai	nager Staff
1	*
	An inheritance relationship between two actors.
2	A data flow from one actor to another.
3	A data flow from one actor to another.
	An Extend dependency between two actors.
3 S 1	
	e organization that is being studied?
1	*
	Background reading.
2	
3	Interviewing.
	Questionnaires.
4 S 1	
	of the following categories of people are not likely to be involved in a steering committee?
1	System testers.
2	
	Senior managers.
3	
	Representatives of users.
5 S 1	
	of the following describes a non-functional requirement?
1	*
	The system must be capable of holding 500Mb of data initially, growing by 100Mb per year.
2	The system must produce a report of all advertising campaigns for a particular client.
3	The system must produce a report of all advertising campaigns for a particular client.
	The system must allow users to enter details of clients.
6 S 1	
Which	of the following describes the figure below?



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1	*
	Print campaign summary extends Check campaign budget.
2	
	Check campaign budget extends Print campaign summary.
3	
	Check campaign budget includes Print campaign summary.
7 S 1	
	of the following does the figure below show?
William	The following does the rigate below show:
_ (<u>/</u>
/	
, , , , , , , , , , , , , , , , , , ,	value.
	paign
iviai	nager
1	
	An actor.
2	
3	A use case.
<u> </u>	A user.
	7. 4001.
8 S 1	
	of the following does the figure below show?
(A	ssign staff to work on)
	a campaign
1	*
	A use case
2	
	An actor.
3	
	An activity
9 S 1	
	of the following is a valid reason for using interviewing as a fact-finding technique?
1	*
<u> </u>	The interviewer can respond flexibly to the interviewee's responses.
2	
	The interviewer can gather statistical data about documents.
3	
	Interviews take very little time.
10 S 1	
Which	of the following is not a purpose for using use cases?
1	*
	To describe the logic of operations.
2	
	To document the scope of the system.
3	To any little a blish bound from the order of the flow the consent of the
	To provide a high-level view of system functionality from the users' perspective.
11 S 1	
	of the following is not a reason for analysing the current system (if it exists)?
1	*
<u> </u>	The analyst must not lose sight of his or her objectives.
2	
	The analyst needs to know about problems with and defects in the current system.
3	and an analysis of the state of
	Much of the functionality of the existing system will be required in the new system.
	,





12	S 1	
	Which	of the following is not a reason for using prototyping during use case development?
	1	*
		To get the user interface development started before the class diagramming is begun.
	2	
1	2	To clarify requirements.
	3	To test the architecture of architecturally significant use cases.
		To lest the architecture of architecturally significant use cases.
13	S 1	
		of the following is not an example of a functional requirement?
	1	*
		The system must allow users to enter details of advertising campaigns.
	2	
		The system must be capable of responding to all queries within 5 seconds.
	3	Users of the system will make 50% fewer errors than with the existing system.
		Osers of the system will make 50% fewer errors than with the existing system.
14	S 1	
		of the following is not the kind of information gathered to understand usability requirements?
	1	*
		The volume of data in the existing system.
	2	
		The characteristics of the users of the system.
	3	
		The context in which the system will be used.
15	S 1	
13		of the following is the best definition of an actor?
	1	*
ļ	'	An actor represents a role played by a user of the system or by an external system.
	2	
		An actor represents a user of the system.
	3	
		An actor represents a role played by a user of the system.
16	S 1	f the fall out is a few to a second few the property and a second as used a second as well as well as well as a weather do 2
	1	of the following is the correct name for the symbols placed round stereotyped names such as «extend»?
	'	Guillemets.
	2	
		Guillemots.
	3	
•		Parakeets.
17	S 1	
	Which	of the following is true?
	-	An Extend relationship means that the functionality of one use case optionally extends the functionality of another at a particular
		point or points in its execution.
1	2	
		An Extend relationship means that the functionality of one use case always extends the functionality of another at a particular
		point or points in its execution.
	3	
		An Extend relationship means that the functionality of one use case inherits the functionality of another at a particular point or
		points in its execution.
18	S 1	
10		l
	1	*
	i	Sampling, questionnaires, interviewing, reading and observation.
	2	
		Use case modelling, interviewing, class diagramming, observation and knowledge acquisition.
	3	



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Sampling, background reading, interviewing, use case modelling and activity diagramming.

19	S 1				1		
-10		of the follo	wing ct	atements is	1 truo?		
	VVIIICII		wing st	atements is	s liue:		
	ı						
		Actors ar	e linked	to use cas	ses by communication associations.		
	2						
		Actors ar	e linke	d to use cas	ses by inheritance.		
	3						
		Actors ar	e linke	d to use cas	ses by «uses» dependencies.		
20	S 1]		
		of the follo	wings i	s true?			
	1	*	Willigs I	3 tiue:			
	ı	A - I I					
		An Include dependency means that the functionality of one use case always includes the functionality of another at a particular					
		point or p	oints ir	n its execution	on.		
	2						
		An Includ	le depe	ndency me	ans that the functionality of one use case optionally includes the functionality of another at a particula		
			ointe ir	n its execution	on.		
		point or p	UII ILO II				
	3	point or p	011115 11				
İ	3			ndency me	ans that the functionality of one use case inherits the functionality of another at a particular point or		



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Questions List

UML :: Cha	UML :: Chap-7 (3-1)				
1 S	1				
How	do operations differ from methods?				
1	*				
	A method is a particular implementation of an operation.				
2					
	An operation is a particular implementation of a method.				
3					
	Some object-oriented programming languages have methods, while others have operations.				
,					
2 S	1				
	of the following cannot directly affect the state of an object. Which one?				
1	*				
	The creation or destruction of another object of the same class.				
2					
	A change in the value of one of its attributes.				
3	The second section of a Pale of the section 12 is				
	The creation or destruction of a link with another object.				
3 S	of the following is a had guideline for deciding the class where an exercise about he leasted. Which are?				
One 1	of the following is a bad guideline for deciding the class where an operation should be located. Which one?				
'	The operation needs to access or update data that is stored in another class that has an association with that class.				
2	The operation fleeds to access of update data that is stored in another class that has an association with that class.				
	The operation represents a service that objects of that class should provide to objects of other classes.				
3	The operation represents a service that objects of that class should provide to objects of other classes.				
	The operation needs to access or update data that is stored in an attribute of that class.				
	The operation needs to access or apadic data that is stored in an attribute of that class.				
4 S	1				
	of the following is not a difference between a class diagram and a communication diagram. Which one?				
1	*				
	A class diagram shows the names of the classes, while the communication ignores these.				
2					
	A communication diagram shows object interaction, while a class diagram ignores this.				
3					
	A class diagram shows more of the structural details than the communication diagram.				
5 S	1				
	of the following is not an advantage of stereotyping analysis classes. Which one?				
1	Once a classic state of mad, its haber issue is likely to be accorden mad listable.				
	Once a class is stereotyped, its behaviour is likely to become more predictable.				
2	The resulting packages can form a basis for the system's architecture.				
3	The resulting packages can form a pasis for the system s architecture.				
	It can be useful to differentiate classes that have broad similarities in the way that they behave.				
	it can be decide to differentiate blaces that have broad diffinanties in the way that they beliave.				
6 S	1				
	of these is not a permitted symbol for an entity class. Which one?				
1	*				
2					





3				





	E27-0-13-1	
/		
[]		
1 ()		
1		





7	S í	1					
	What	are	entity cla	sses	?		
	1		*				
			Classes th	at re	pres	ent some	ething or some concept in the application domain.
Į	2						
r			Classes th	at co	ntair	n data.	
Į	3						
		L	Classes th	at co	ntair	n persiste	ent data.
	-						
8	•	1	h d				0
		ao	boundary	ciass	ses r	represen	
Į	1	+	Interfeces	hotw	000	the evet	em and its actors.
1	2	+	linenaces	Detw	een	ine syste	sili dilu ils delois.
l		+	Customers	and	eun	nliers of	the business.
[3	+		and	Jup	plicis of	tile busiliess.
l		1	l People wh	o will	use	the syst	em.
		L	. сор.с			,e eye.	•····
9	S	1					
	What	do	control cla	asses	rep	resent?	
ļ	1	T	*		<u> </u>		
·		1	The calcul	ation	and	schedul	ing aspects of the logic of the use case.
	2						
			Classes th	at int	erac	ct with the	e users of the system.
	3						
		L	Classes th	at co	ntro	I the stor	age of persistent data.
	_			_			
10	-	1					
-		IS	a domain	class	mod	del?	
l	1		^	1-			tie independent of any continuous access
ı		-	An anaiysi	s cias	ss m	nodel that	is independent of any particular use cases.
Į	2	+	A class m	odol t	hat (doos not	include either boundary or control classes.
[3	-	- Class III	Juert	liai (uoes not	include elitter boundary of control classes.
l		+	A class mo	ndel t	hat l	has been	implemented in a particular domain.
		L		, , , ,			The first of the particular contains
11	S	1					
	What	is	he differe	nce b	etwe	een a link	and an association?
	1		*				
			A link con	nects	two	instance	s, while an association connects two classes.
	2						
r		_	A link is a	trans	ient	associati	on.
	3	4			L.,		
		L	A link is ar	n asso	ociat	tion betw	een two entity classes.
12	S	4 T		1			
12		ie ·	he signific	anco	of +	he doubl	e colon in the class name: User Interface::AddAdvertUI?
ŀ	1	13	* Signific	Jan 100	01 (iic doubl	o oolon in the olass flame. Oser interfaceAddrayoftor:
l	•	+	The class	called	hA b	IdAdvertI	Il is in the package called User Interface.
	2	+	1110 01400		1	ia, ia voi te	The in the pashage cance cost interface.
l			User Inter	ace i	s the	e stereoty	/pe of a class called AddAdvertUI.
	3	T				•	
,			User Inter	ace a	and A	AddAdve	rtUI are two alternative names for the same class.
13	S í	1					
	What	is	the signific	ance	of t	he multip	licity of an association?
	1	\perp	*				
r		\perp	lt constrair	ns the	nur	mber of c	bjects of one participating class that can be linked to an object of the other class.
Į	2	4	<u> </u>	1	<u>.</u>		and decree that are he Pale disouth
ı		+	it denotes	tne n	umb	per of diff	erent classes that can be linked together.
l	3	+	 	11.		mber fr	important on philost of one positionation along one by Bulled during the PACC.
		L	ii constrail	is the	un:	mber of t	imes that an object of one participating class can be linked during its lifetime.
14	S	1					
14	<u> </u>	•					
1							





	When	do we not need to represent the whole system as a class in the analysis model?
	1	*
		When the system does not need to encapsulate data or behaviour that applies only to the system as a whole.
	2	Min and the control of the field of the fiel
	3	When the users have not stated that this is a requirement.
		When the system does not need to interact directly with other systems.
15		
		is the correct name for "a possible set of classes, together with an understanding of how those classes might interact to deliver the enality of a use case"?
	1	* *
		A collaboration.
	2	
	3	A use case class diagram.
		A realization.
16	S 1	
	Which	of the following answers is the correct interpretation of the association multiplicities shown on this diagram?
		Grade StaffMember
		1* 0*
		 *
	1	A grade need not be associated with any staff members, or it can be associated with an indeterminate number of staff members; a
		staff member must be associated with one or more grades.
	2	
		A staff member need not be associated with any grades, or it can be associated with an indeterminate number of grades; a grade
	3	must be associated with one or more staff members.
		A grade cannot be associated with a staff member but a staff member can be associated with a grade.
17	S 1	
	vvnicn 1	of the following is not a good reason for constructing a requirements model?
		It can demonstrate that all the use cases have been drawn using the correct notation.
	2	
		It can show the business situation in enough detail to check that the requirements have been captured fully and correctly.
	3	It can be organized in such a way that it will be useful later for designing the software.
		it van de diganized in such a way that it will be declut later for designing the software.
18		
		of these figures is a communication diagram?
	1	
	2	

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3		

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()<()	

19 S 1 Which of these is the correct set of USDP analysis class stereotypes?





	1	*
		Boundary, control and entity.
	2	
		Interface, control and entity.
	3	
		Interface, sequence and entity.
20		
20		one of these is not a permitted symbol for a boundary class?
	1	*
	Į.	
		
	2	
•		
		·O
	3	

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Questions List

UML ::	UML :: Chap-8 (3-1)				
1	S 1				
	How do	abstract and concrete classes differ from each other?			
	1				
		Abstract classes have no instances, whereas concrete classes have instances.			
	2	Abstract alcohology with a substitute of the condition of			
	3	Abstract classes represent intangible concepts in the application domain, whereas concrete classes represent physical things.			
		Abstract classes are superclasses, whereas concrete classes are subclasses.			
		Thousand stades are superstades of microac series and superstades.			
2	S 1				
	How do	pes composition support software reuse?			
	1	*			
		Composite structures encapsulate their sub-components, making it easy to treat the composite as a single whole.			
	2				
		A composite structure is capable of performing more than one task, and thus it is useful in more than one context.			
	3	Composition structures are easy to extend with minimal effort.			
		Composition structures are easy to exterid with minimal enort.			
3	S 1				
		pes generalization increase the opportunities for software reuse?			
	1	*			
		A generalization hierarchy can be extended to include new subclasses with minimal effort.			
	2				
		Generalization aids the encapsulation of software components.			
	3				
		Generalization allows a group of software components to be treated as a single whole.			
4	S 1				
4		the following is not a reason why object-oriented approaches support software reuse. Which one?			
	1	*			
		Object-oriented development encourages developers to share ideas with developers in other teams.			
	2				
		Object-oriented development encourages the encapsulation of the internal details of components.			
	3				
		Object-oriented models are organized in a way that makes it easier to find suitable components.			
5	S 1	oes it mean to say that an operation has been redefined?			
	1	*			
		The definition of the operation in a subclass overrides the superclass definition of the same operation.			
	2				
		The definition of the operation has been changed because users have changed their minds about the requirements.			
	3				
		The method that implements the operation does not follow the original definition of the operation.			
6	S 1	s meant by the NIH syndrome?			
	1	s meant by the Nin syndrome?			
	'	Some software developers are not inclined to trust software that was written elsewhere.			
	2				
		Some project managers are not inclined to trust programmers who were trained elsewhere.			
	3				
		Many users are not inclined to trust software that was written elsewhere.			
	, ,				
7	S 1				
		s the role of encapsulation in reuse?			
	1	Encapsulation means that it is not necessary for other developers to know how a software component works internally.			
		Encapsulation means that it is not necessary for other developers to know now a software component works internally.			





	2	
		Encapsulation means that software components can work more efficiently.
	3	Lineapsulation means that software components can work more emiciently.
		Encapsulation means that there is no need for software developers to document their work.
		Encapsulation means that there is no need for software developers to decument their work.
8	S 1	
	Which	of the following best describes composition?
	1	*
		A relationship between a whole and its parts.
	2	
		A package of model elements.
	3	
		A set of realizations for a single use case.
9		
		of the following best describes how composition differs from aggregation?
	1	A part can belong to only one composition, whereas a part can belong to the control of the contr
		A part can belong to only one composition, whereas a part can belong to more than one aggregation.
	2	
		A part cannot be removed from a composition, whereas a part can be removed from an aggregation.
	3	A part that belongs to a composition cannot have associations with any other classes, whereas a part that belongs to an
		aggregation can have associations with other classes.
		aggregation can have associations with other classes.
10	S 1	
10		of the following best describes multiple inheritance?
	1	*
ı		Multiple inheritance occurs when a subclass inherits from more than one generalization hierarchy.
	2	
'		Multiple inheritance occurs when a subclass is removed from one generalization hierarchy and added to another.
	3	
		Multiple inheritance occurs when a subclass inherits characteristics from more than one level of superclass.
11	S 1	
	Which	of the following best describes the advantages of using software components, assuming that suitable components are available?
	1	*
		The project is more likely to be completed in less time and at a lower cost.
	2	
		The users are more likely to get what they want.
	3	
		The software is more likely to be capable of running on different hardware platforms.
12		
		of the following is the best description of a software development pattern?
	1	
		The core of a solution to a software development problem that occurs over and over again.
	2	The constitute and the section of th
		The way that a particular software developer tends to solve problems.
	3	A particular approach to software development, such as the object-oriented approach or the structured approach.
		r a particular approach to software development. Such as the object-offented approach of the structured approach.

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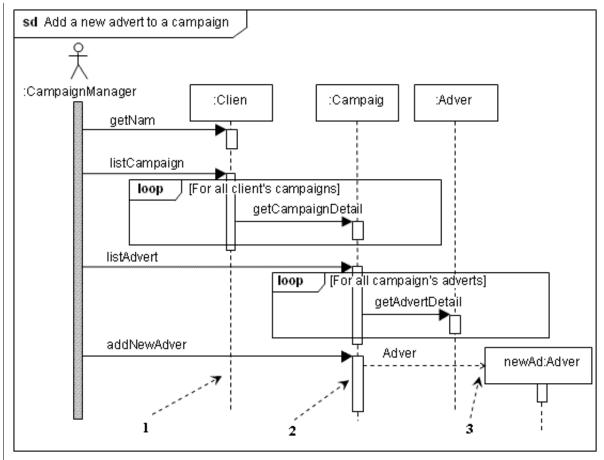
Questions List

UML ::	Chap-	-9 (3-1)
1	S 1	
		eraction diagram should be consistent with the associated class diagram in various ways. Which of the following statements is true?
	1	
	2	The sending object must have the object reference of the receiving object before sending a message to that object.
	2	It is always correct to show a message between two objects if there is an association between their classes.
	3	it is always correct to show a message between two objects if there is an association between their classes.
		A message should not be shown between two objects if there is no association between their classes.
2	S 1	
	An inte	eraction sequence diagram drawn during analysis differs from one drawn during design in which of the following ways?
	1	*
		The former normally does not include design objects or detailed specifications of message signatures.
	2	
		The former normally does not include boundary objects.
	3	The Course consults does not be lede and to the letter to
		The former normally does not include control objects.
3	S 1	
		lunication diagrams differ from interaction sequence diagrams in the following way?
	1	*
	•	Communication diagrams show the links between the objects.
	2	
		Communication diagrams cannot show the design detail that can be shown on a sequence diagram.
	3	
		Communication diagrams only show the collaboration and not the sequence of the messages.
4	S 1	
		ommunication diagram one message has the sequence number 5.1.1. Which of the following sequence numbers indicates the
	messa	ge that must be the immediate successor?
	1	*
		A message with the sequence number 5.1.1.1.
	2	
	2	A message with the sequence number 5.1.2.
	3	A message with the sequence number 5.2.1.
		A message with the sequence number 5.2.1.
5	S 1	
		ction sequence diagrams should be consistent with other diagrams and models that relate to the same group of objects or
		stems. Which of the following statements is true?
	1	*
		A sequence diagram must be consistent all other diagrams or models that include or relate to the lifelines in the sequence
		diagram.
	2	
		A sequence diagram must show all the messages that are consistent with the state machines for each of the lifelines in the
		sequence diagram and be consistent with the class diagram.
	3	
		A sequence diagram must be consistent with the class diagram or with the state machines for lifelines in the sequence diagram.
6	S 1	
0		e following figure which of the symbols labelled 1, 2 or 3 represents an activation on a sequence diagram?
	On the	Tollowing figure which of the symbols labelled 1, 2 of 5 represents an activation of a sequence diagram:

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1	*													
	Symbol 2													
2														
	Symbol 1													
3														
	Symbol 3													

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7	S 1	
	_	diagrams are used to show how timing constraints affect interactions between lifelines. Which of the following statements is true?
	1	*
		When a state change is being modelled that takes significant (from the application's perspective) time it is shown by a slanting
	2	line.
		A lifeline may only have two alternative states.
	3	
		Messages are not shown on timing diagrams.
8		
		s meant by the term 'thread of control' in the context of concurrent behaviour?
	1	*
		A thread of control is an execution pathway that may occur simultaneously with other execution pathways.
	2	A thread of control is a weak part of the control system.
	3	A thread of control is a weak part of the control system.
		A thread of control is the mechanism that controls concurrent behaviour.
		A threat of control is the meetitalism that controls concurrent behaviour.
9	S 1	
		s meant by the term collaboration in context of interaction modeling?
	1	*
		A collaboration describes the structure and links between a group of instances playing roles in a behaviour.
	2	
		A collaboration describes the messages between objects.
	3	A sullaboration describes abirate that above for attack to
		A collaboration describes objects that share functionality.
10	S 1	
10		s meant by the term interaction?
	1	*
		An interaction defines the message passing between lifelines (e.g. objects) within the context of a collaboration to achieve a
		particular behaviour.
	2	
		An interaction describes any communication between two lifelines.
	3	
		An interaction describes a group of lifelines that share functionality.
11		
11	S 1	of the arrows labelled 1, 2 or 3 is pointing to an interaction constraint?
	sd	Add a new advert to a campaign
		<u> </u>
		入 ;
	:Ca	mpaignManager :Client / :Campaign :Advert
		getName ; L.,
	1	listCampaigns 3
	Η.	Toop [For all client's campaigns]
		getCampaignDetails
		 • • • •
		listAdverts
		loop [For all campaign's adverts]
		getAdvertDetails
		addNewAdvert Advat 1
		Advert newAd:Advert
		■
		·





	1	*
'		Arrow 2
	2	
		Arrow 1
	3	
		Arrow 3
40		
12		
	1	*
l		An asynchronous message does not cause the invoking operation to halt execution while it awaits the return of control.
	2	
'		An asynchronous message has the same effect as a blocking call.
	3	
		An asynchronous message is a reply to a synchronous message.
40		
13		
	1	*
l		A communication diagram is difficult to read if there are many messages between two objects.
	2	
'		A communication diagram can only be used during analysis.
	3	
		A communication diagram cannot include guard conditions.
14		of the following is an appropriate way of hiding complex behaviour in an interaction sequence diagram?
	1	or the following is an appropriate way of filding complex behaviour in an interaction sequence diagram?
l	'	A group of objects and their interactions can be represented by a single lifeline which references an interaction fragment.
	2	7 t group or objects and their interactions can be represented by a enight memory relationstations and interaction regiment.
		Some messages are omitted to reduce the complexity.
	3	
		Some objects are omitted from the diagram to reduce the complexity.
4.5		
15		
	1	
l		Model the common part of the interaction as an interaction fragment in a separate sequence diagram.
	2	
'		Model the common part of the interaction as an 'alt' combined fragment.
	3	
		Model the common part of the interaction using a communication diagram.
40	ء اہ	
16		of the following is true about boundary objects?
	1	*
	<u>'</u>	The identification and specification of boundary objects is considered in both analysis and design but in different ways.
	2	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		The identification and specification of boundary objects is purely a design activity.
	3	
		The identification and detailed specification of boundary objects is part of requirements specification.
17	S 1	of the following is true?
	1	*
	'	Message passing is a metaphor used to describe object interaction.
	2	5
		Identifying what messages are passed between objects is a straightforward process.
	3	
		Message passing is only concerned with query operations.
18		of the following statements about sequence diagrams is true?
	1	*
	'	
		·



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			A s	eque	nce	dia	gran	conta	aining	an intera	ction f	fragme	nt ma	ay be r	efere	enced	by c	one or	more	sequ	ence (diagra	ams.			
	2	2																								
	A sequence diagram containing an interaction fragment may be referenced by only one sequence diag														ram.											
	3	3																								
			A sequence diagram containing an interaction fragment may never be referenced by another sequence diagram.																							
19	S	1																								
	Which of the following statements is correct about interaction overview diagrams?																									
	1		*																							
			An	inter	actio	on o	verv	iew dia	agrar	n may incl	lude in	n-line s	equer	nce dia	agrar	ns.										
	2	2																								
			An interaction overview diagram may not have decision nodes.																							
	3	3																								
			An	inter	actio	on o	verv	iew dia	agrar	n may only	y have	e intera	action	occur	rence	es, ini	itial p	seud	ostate	s and	final p	seuc	dostate	es as r	nodes	s in
			the	diag	ram	١.																				

Which of the labelled symbols in the following diagram represents a synchronous message?

Sd Interaction

LifelineA

Activ

Symbol 1

Symbol 2

Symbol 3

Symbol 3