Final Exam

Due Jul 31 at 11:59pmPoints 100Questions 100Available Jul 18 at 12am - Jul 31 at 11:59pm 14 daysTime Limit 120 Minutes

Instructions

Final Exam - 120 Minutes

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	94 minutes	95 out of 100

Score for this quiz: **95** out of 100

Submitted Jul 26 at 2:41pm This attempt took 94 minutes.

	Question 1	/ 1 pts
	The first step in defining a solution in the development of a new software system is to define what?	N
Correct!	The computing environment	
	The details of the business problem	
	The application architecture	
	The programming language	

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	Question 2 1/1	pts
	Low-level design that includes the design of the program module and algorithm logic is referred to as design.	S
	o module	
Correct!	detail	
	component	
	functional	

Question 3	1 pts
The key design question, (Have we specified in detail how the will interact with the system to carry out all the use cases?) is associated with which design activity?	users
Design application software	
Design use cases	
Design system interfaces	
Design user interfaces	
	The key design question, (Have we specified in detail how the will interact with the system to carry out all the use cases?) is associated with which design activity? Design application software Design use cases Design system interfaces

Question 4	1 / 1 pts
Which is NOT one of the problematic areas of Web based applications?	
Complexity of Internet servers and Web development	
Configuration to handle high peak loads	
Security of applications	
Rapid change of Web standards and functionality	
	Which is NOT one of the problematic areas of Web based applications? Complexity of Internet servers and Web development Configuration to handle high peak loads Security of applications

	Question 5	1 / 1 pts
	Which of the following is NOT a form of system interface?	
	File transfer	
Correct!	Turn-around document	
	Function call	
	Transaction interchange	

Question 6 1 / 1 pts

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Which of the following is NOT considered an analysis model?		
Activity diagram		
State machine diagram		
User interface screen layouts		
Class diagram		

	Question 7	1 / 1 pts
	Limiting user access to the system is considered what type design?	of
	System interface design	
Correct!	Security and controls design	
	Application software design	
	User interface design	

Question 8

1/1 pts

Which is NOT one of the primary advantages of deploying a system via a Web implementation.

Correct!	Easy to program with HTML
	Wide availability of the Web
	Standard development and deployment practices
	Low-cost connectivity

	Question 9 1 / 1 pts	
	Which if the following is NOT considered part of designing the application architecture and software?	
	Multilayer design	
	Detailed design	
	Subsystem definition	
Correct!	Program security design	

Question 10	1 / 1 pts
Managed services refers to what?	
Hosting service that provides backup and recover	y services.
Hosting company manages the cloud.	

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	Hosting company provides all the server equipment.			
Correct!	•			
	Hosting service with maintenance of the server and system softwar			
	Question 11	1 / 1 pts		
	Architectural design includes the design of specific program	n details.		
	O True			
Correct!	False			
	Question 12	1 / 1 pts		
	The most serious problem with Web based deployment of applications is security.			
Correct!	True			
	O False			
	Question 13	1 / 1 pts		
	Designing the application architecture involves specifying in detail			

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	how some system activities will actually be carried out.	
Correct!	False	
	O True	
	Question 14	1 / 1 pts
	It is just as important to have heavy user involvement during as it is during design.	g analysis
	O True	
Correct!	False	
	Question 15	1 / 1 pts
	The output of the design activities is a set of diagrams and documents that describe the solution system.	
	O False	
Correct!	True	
	Question 16	1 / 1 pts

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	Since most newer Web applications use dynamic pag delivery networks are going out of use.	es, content
Correct!	False	
	○ True	
	Question 17	1 / 1 pts
	Basically, design involves decomposition breaking a problem into smaller, more understandable componer	-
Correct!	False	
	O True	
	Question 18	1 / 1 pts
	The majority of new systems today must be integrated networks without disrupting existing applications.	d into existing
	O False	
Correct!	• True	

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	Question 19	1 / 1 pts
	One of the benefits of three-layer architecture is its flex	cibility.
Correct!	True	
	False	
	Question 20	1 / 1 pts
	One of the disadvantages of three-layer architecture is requires multiple computers.	that is usually
Correct!	• False	
	O True	
	Question 21	1 / 1 pts
	Designers should be sure to include cancel buttons on boxes which allow the user to back up. This is an exam	_
Correct!	Easy reversal of actions	
	Dialog that yields closure	

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Reduce short term memory load

	Good error handling	

-	Question 22	1 / 1 pts
	Users should not be required to keep track of information have previously entered. This is an example of what?	that they
	Dialogs that yields closure	
	Easy reversal of actions	
Correct!	Reduce short term memory load	
	Good error handling	

	A metaphor of human-computer interaction, in which interaction with the computer involves browsing and entering data on electronic documents, is referred to as a metaphor.
	direct manipulation
	dialog
	desktop
Correct!	document
	Question 24 1 / 1 pts
	Reports that are not predefined by a programmer, but are designed as needed, are called reports.
Correct!	ad hoc
	business
	quick and dirty

Question 25 1 / 1 pts

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	Since it is not always clear that Web page objects are clickable, or when a control has recognized the click, designers should be careful to apply the principle of	
Correct!	visibility	
	shortcuts	
	affordance	
	consistency	

	Question 26	/ 1 pts
	The major advantage of screen output versus printed output is screen output	s that
	is more secure	
Correct!	can be updated dynamically	
	has more information	
	is more user-friendly	

Question 27	1 / 1 pts

	An external output that includes a portion that is returned to the system as an input is a(n)
Correct!	turn-around document
	return document
	output-input document
	tear off and return document

Question 28 1 / 1 pts
A good design heuristic for menu design is to limit the menu choices to choices.
never more than seven
five to ten
o four to nine
three to seven

Question 29	1 / 1 pts
[When subsequent processing is delayed by more than a	second or

	two, users may repeatedly press controls or reenter information, resulting in processing errors and user frustration] is an example of what?
	Lack of consistency
	Lack of closure
Correct!	Lack of feedback
	Lack of error handling

	Question 30	1 / 1 pts
	Which of the following is NOT an example of a technique to input errors?	reduce
	Avoid human involvement	
	Capture data close to the source	
Correct!	Design input codes with special meanings	
	User electronic data capture devices	

Question 31	1 / 1 pts
EDI stands for electronic database integration.	

I		
Correct!	FALSE	
	O TRUE	
_		
_	Question 32	1 / 1 pts
	Users need to feel that they can explore options and take that can be canceled without difficulty.	e actions
Correct!	• TRUE	
	O FALSE	
L		
	Question 33	1 / 1 pts
	XML is a definition language that allows users add new c the language.	onstructs to
Correct!	• TRUE	
	O FALSE	
L		
	Question 34	1 / 1 pts

Storyboarding should result in a detailed dialog design.

	O TRUE	
Correct!	FALSE	
	Question 35	1 / 1 pts
	A good example of an error message might be, [The accoinformation is missing critical data. Please re-enter.]	unt
	O TRUE	
Correct!	FALSE	
	Question 36	1 / 1 pts
	User interface design is frequently added to the system at business rules and business logic has been designed.	ter the
Correct!	• FALSE	
	O TRUE	
	Question 37	1 / 1 pts
	Fach dialog may only have one window form	

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Correct!	• FALSE	
	O TRUE	
	Question 38 1 / 1 pts	
	Highly automated input devices such as scanners can capture many system inputs.	
	O TRUE	
Correct!	FALSE	
	Question 39 1 / 1 pts	
	Ease of learning and ease of use are often in conflict.	
	O FALSE	
Correct!	• TRUE	
	Question 40 1 / 1 pts	
	Adequate feedback from a system to user data entry helps reduce errors.	

Correct!	TRUE	
	FALSE	

	Question 41	1 / 1 pts
	High coupling in a system.	
	is easier to maintain	
	decreases visibility between classes	
	reduces ripple effects in a system when changes occur	
Correct!	adds complexity	

Question 42	1 / 1 pts

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	Ports and sockets are used to show the interface in what kind of UML diagram?
	Package diagram
Correct!	Component diagram
	Network diagram
	Deployment diagram

	Question 43	l pts
	The original method used to process input data in a Web based system was by using computer programs in	
	the .NET programming suite	
	the Javascript programming language	
	the Java programming language	
Correct!	the C++ language for the CGI	

Question 44	0 / 1 pts
If you are doing detailed design for the use case Create N	New Order,

	which class should receive the first input?
rrect Answer	Order
	Customer
	OrderTransaction
u Answered	OrderHandler

	Question 45 1 / 1 pts	;
	After completing a use-case design using CRC cards, the next step is to	
	select another use case	
	add required utility classes	
Correct!	update the design class diagram	-
	program the use case	

Question 46	1 / 1 pts
Which of the following is NOT part of a multilayer object design (OOD)?	-oriented

Functional module
Problem domain object
User input form
O Database access

	Question 47 1 / 1 pts
	In a design class diagram, navigation visibility is identified by
Correct!	a solid arrow between the classes, pointing to the visible class
	a solid arrow between the classes, initiating from the visible class
	a dashed arrow between the classes, pointing to the visible class
	a solid line between the classes

Question 48	1 / 1 pts

	It is usually a bad idea to try to include user-interface classes to a CRC design.						
Correct!	• FALSE						
	O TRUE						
	Question 49	1 / 1 pts					
	The primary difference between a design class symbol and a problem domain class symbol is the addition of method signatures.						
	FALSE						
Correct!	• TRUE						
	Question 50	0 / 1 pts					
	Question 50	- Vi pts					
	The objective of object-oriented detailed design is to identi specify all the objects that must work together to carry out case.	-					
rrect Answer	O TRUE						
u Answered	FALSE						

	Question 51	1 / 1 pts
	Software systems can generally be divided into three type systems: single-user systems, enterprise-level systems, a based systems.	
	O TRUE	
Correct!	FALSE	
	Question 52	0 / 1 pts
	Two-layer architectures are interesting in theory, but are sever used.	eldom if
	O TRUE	
ou Answered	• FALSE	

Question 53

Developers do not typically add more classes to design class diagrams than were originally defined in the domain model.

TRUE

package

Correct!	• FALSE	
	Question 54 1 / 1 pts	
	Just in time systems design is a popular technique used in adaptive approaches to projects.	
Correct!	TRUE	
	O FALSE	
	Question 55 1 / 1 pts	
	Developing a(n) diagram is a multistep process of determining which objects work together and how they work together.	
Correct!	interaction	
	state machine	
	o design class	

Question 56 1 / 1 pts

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	System designers frequently create a class called a that can serve as a collection point for incoming messages.
	message collector
Correct!	use case controller
	message controller
	switchboard
	Question 57 1 / 1 pts
	The following notation <anord:order> can be interpreted as follows:</anord:order>
	Order is a class. anOrd is an object in that class
Correct!	Order is an object. anOrd is the reference to that object
	Order is an object. anOrd is the identifier for that order
	Order is a class. anOrd is the identifier of an object in the class
	Question 58 1 / 1 pts

_____ methods must be included in a design class diagram.

Setter

	Getter	
	Constructor	
Correct!	Use case specific	
	Question 59 1 / 1 pts	
	What is the first step in constructing a first-cut sequence diagram from the elements of the system sequence diagram (SSD)?	
Correct!	•	
	Replace the :System object with all the objects that must collaborate	
	Determine which messages must be sent	
	Create a use case controller	
	Select an input message from the use case	
	Question 60 1 / 1 pts	
	The primary models used for OO detailed design are diagrams.	

package and statechart

package and deployment

Correct!	design class and interaction
	design class and statechart

	Question 61	1 / 1 pts
	Communication diagrams indicates the order of the messag	jes with
	links	
	arrows	
	activation lifelines	
Correct!	sequence numbers	

	Question 62	ts
	The activation lifeline is depicted by a vertical dashed line under an object.	
Correct!	FALSE	
	O TRUE	

	Question 63	1 / 1 pts
	The first-cut sequence diagram contains view layer and bus layer.	iness
Correct!	FALSE	
	O TRUE	
	Question 64	1 / 1 pts
	Design class diagrams and interaction diagrams should be developed independent of each other.	
	O TRUE	
Correct!	• FALSE	
	Question 65	1 / 1 pts
	The code [if (someObject == null)] is part of the factory patte	ern.
	O FALSE	
Correct!	• TRUE	

	Question 66	1 / 1 pts
	Dependency relationships cannot exist between classes w packages.	ithin
Correct!	• FALSE	
	TRUE	
h		

	Question 67 1 / 1 pts	ì
	The perfect technology assumption means not to worry about issues such as user security.	
Correct!	• TRUE	-
	O FALSE	

Question 68	1 / 1 pts

	The perfect memory assumption means that there is always adequate memory to execute the program.	
	O TRUE	
Correct!	• FALSE	

	Question 69	1 / 1 pts
	A is an institution's name and public key, which is encand certified by a third party.	rypted
	private key	
	certifying authority	
Correct!	digital certificate	
	O digital key	

Question 70	1 / 1 pts
A relational database table is in normal form field is functionally dependent on the primary key.	•
first	

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	third	
	third	
	ofourth	
Correct!	second	
	Question 71	1 / 1 pts
	A database server architecture is only feasible who database schema can be cleanly divided among client groups.	
	Cloud-based	
Correct!	partitioned	
	single	
	replicated	
	Question 72	1 / 1 pts
	Database synchronization should be implemented whe database server architecture.	n using a(n)
	single	

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partitioned

Correct!	replicated	
	Cloud-based	
	Question 73 1 / 1 pts	
	[] is a consistent relational database state in which every foreign key value also exists as a primary key value.	
Correct!	Referential integrity	
	First normal form (1NF)	
	Database synchronization	
	Function dependency	
	Question 74 1 / 1 pts	
	Each class on an class diagram is represented by a(n) in a relational database.	
Correct!	• table	
	attribute	
	O row	

column			

-	Question 75	1 / 1 pts
	Which is NOT an objective of integrity controls?	
	Protect the assets of the organization	
	Allow only valid business transactions	
Correct!	Ensure a stable functioning operating environment	
	Ensure that transactions are recorded completely	

	Question 76	1 / 1 pts
	Classes that participate in a classification hierarchy can be represented within a relational database as a set of tables or primary key of the general class table replicated in the other	
Correct!	• TRUE	
	FALSE	

Question 77 1 / 1 pts

	value in a field is too large or too small.	ties when a
Correct!	• FALSE	
	O TRUE	
	Question 78	1 / 1 pts
	The primary purpose of integrity controls is to track ex	ternal activity.
Correct!	• FALSE	
	O TRUE	
	Question 79	1 / 1 pts
	Relationships in a relational database are usually represented in each participating table.	resented by
Correct!	• FALSE	
	O TRUE	
	Question 80	1 / 1 pts

	Every table in a relational database must have a f	oreign key.
	O TRUE	
Correct!	• FALSE	
	Question 81	1 / 1 pts
	A relational database management system stores	data in tables.
	O FALSE	
Correct!	● TRUE	
	Question 82	1 / 1 pts
	A foreign key is a field or set of fields stored in one exists as a primary key in another table.	e table that also
Correct!	• TRUE	
	O FALSE	
	Question 83	1 / 1 pts

	A relational database table is in third normal form (3NF) if it is i second normal form (2NF) and if every non-key field is function dependent on the primary key.	
	O TRUE	
Correct!	• FALSE	
	Question 84	/ 1 pts
	Question 64	
	Problem domain modeling and database normalization are incompatible techniques for relational database design.	
Correct!	• FALSE	
	O TRUE	
	Question 85	/ 1 pts
	Classes that participate in a classification relationship can only represented within a relational database as a single table conta all the attributes in each class.	
Correct!	• FALSE	

TRUE

	Question 86	ots
	Most organizations use a(n) form to propose and document a maintenance change.	l
	maintenance report	
Correct!	change request	
	team request	
	user request	

	Question 87	1 / 1 pts
	In a deployment, the system is installed and brought in operation in a series of steps.	to
	stepwise	
	direct	
	o parallel	
Correct!	• phased	

Question 88 1 / 1 pts

	Drivers are used extensively in development, because called methods and child modules are developed and unit-tested before their parents are developed.
Correct!	bottom-up
	Object-oriented
	input, process, output
	O top-down

	Question 89 1 / 1 pt	S
	The primary advantage of deployment is its simplicity.	
Correct!	direct	_
	o parallel	_
	networked	_
	phased	

Question 90	1 / 1 pts
A(n) test is a test performed to determine whether the fulfills user requirements.	the system

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	system
	performance
Correct!	acceptance
	integration

uestion 91	0 / 1 pts
(n) version is a system that is stable enough to be tended users.	ested by
maintenance	
production	
O beta	
alpha	
((n) version is a system that is stable enough to be tend users. maintenance production beta

Question 92	0 / 1 pts
A minor production release, called a(n)v fixes and small changes to existing features.	version, provides bug
O beta	

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	alpha	
u Answered	production	
rrect Answer	maintenance	
L		
	Question 93	1 / 1 pts
	A(n) version is a system version created for long-term to users.	release
	alpha	
Correct!	production	
	O beta	
	maintenance	
	Question 94	1 / 1 pts
	A stress test is also called a test.	
	volume	
	equipment	

Correct!	performance
	throughput

	Question 95	1 / 1 pts
	Which of the following is a major advantage of input, procedevelopment order?	ss, output
	The development process is rapid	
	Not as much testing is required	
	User interface is easier to develop	
Correct!	Testing is more straightforward	

	Question 96 1 / 1 pts	
	How to start up the system and how to shut it down are examples of system documentation.	
Correct!	• FALSE	
	O TRUE	

	Question 97	1 / 1 pts
	In some deployment situations, it may be possible to of the new system without converting data from the of	
Correct!	• TRUE	
	O FALSE	
	Question 98	1 / 1 pts
	In complex data conversions programs must be contested in the same manner as operational software.	structed and
	O FALSE	
Correct!	• TRUE	
	Question 99	1 / 1 pts
	Due to design principles for object-oriented systems cohesion and coupling, integration testing is usually process with little complexity.	
Correct!	• FALSE	
	O TRUE	

	Question 100	1 / 1 pts
	The purpose of system documentation is to help the end u understand the details of how the system works.	sers
Correct!	• FALSE	
	O TRUE	

Quiz Score: 95 out of 100