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TO PASS 75% or higher

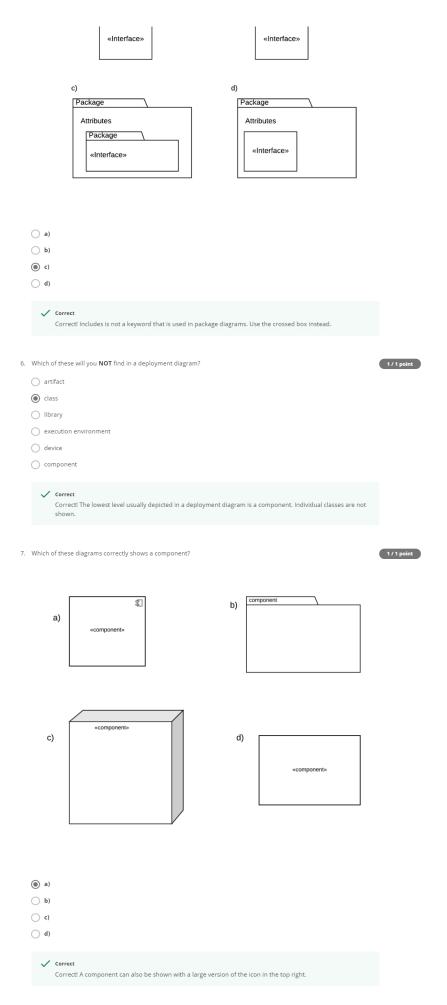


GRADE 86.66%

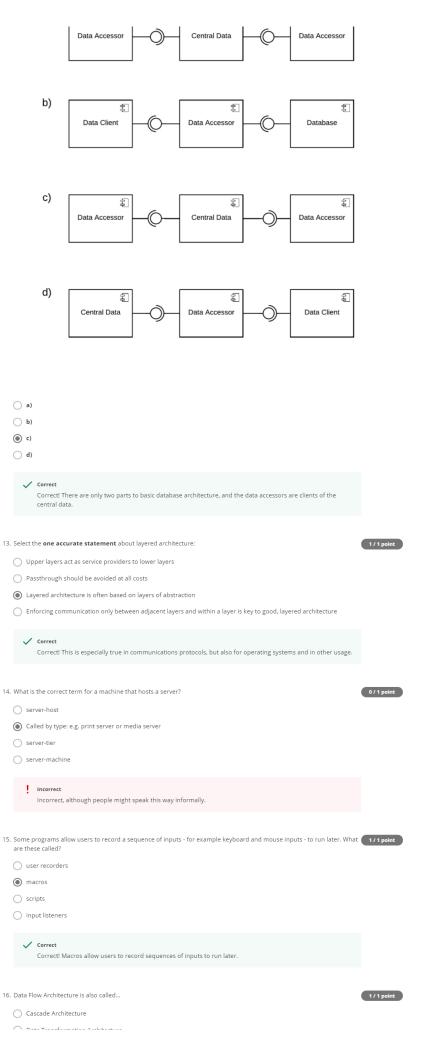
Final Exam

LATEST	SUBMISSION	GRADE
066	C0/	

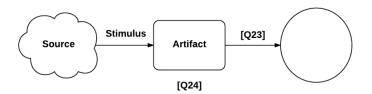
86	86.66%				
1.	Which of these views show the functional design of the software, usually in the form of objects and the relationships between them? physical view process view logical view development view Correct Correct The logical view lays out the objects of the system, allowing you to see the key abstractions and the	1/1 point			
2.	Interactions among parts. Which of these UML diagrams are likely to be part of the process view? Select two correct answers. Class diagram Activity diagram	0 / 1 point			
	✓ Correct Correct! Activity diagrams can illustrate the processes in the system. State diagram				
	This should not be selected Incorrect. This belongs in the logical view. Sequence diagram				
3.	To which view would the Package Diagram belong? Remember that a package diagram shows the packages that make up a software and how they are related. process view physical view development view logical view	1/1 point			
	Correct Correct! The Internal makeup of the software is expressed in the development view. Another UML diagram you might find here is a Component diagram.				
4.	Which of these statements about Component Diagrams is true? They give a dynamic view of the system They do not show third-party libraries They clarify dependency relationships They are useful for clarifying the artifacts that will be produced from development	1/1 point			
	Correct Correct! Dependencies are shown with ball and socket and other connectors.				
5.	Which of these Package Diagrams is invalid ?	1/1 point			
	a) b) Package Package Attributes Attributes				





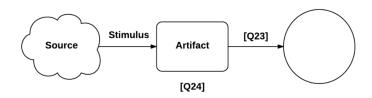


A real training and the second	
Pipe and Filter Architecture	
Black Box Architecture	
✓ Correct	
Correct! This architecture consists of pipes (basically flows of data) and filters (which transform the data.	
7. Which of these is NOT a common component of event-driven architectures?	1 / 1 point
event consumer	
event consumer event processor	
event processor	
event bus	
Cechibus	
✓ Correct	
Correct! The "processing" of events is split between the event bus, which directs them to the correct place, and the event consumers, which decide what to do with them.	
the event consumers, which decide what to do with them.	
8. Which type of process control that we discussed is typically needed for complex systems?	1 / 1 point
MAPE-K	
Feedforward Control + Feedback Control	
Machine Learning	
Feedforward Control	
Correct Correct MAPE-K control is good at dealing with more complex systems.	
, ,	
3. Which of these is a drawback of n-Tier architecture?	1 / 1 point
Every tier demands extra resources to manage the client/server relationships	
More hardware nodes are necessary	
○ Limited in scale	
Only asynchronous messaging is possible, leading to challenging development decisions	
Correct Correct Typically a server in one tier has many clients; these relationships take resources (for example, IT	
support) to support.	
D. Which of these is NOT an example of interpreter type architecture?	1/1 point
◯ Java Virtual Machine	
The kernel of an operating system	
C Excel formulas	
Scripting and Macros	
Correct Correct This is better described as a layered architecture, wherein the lower layers provide services to the	
correct. This is better described as a layered architecture, wherein the lower layers provide services to the ones above.	
1. Which of these terms matches this definition: "The amount of time the system is operational over a set period of time?"	1/1 point
availability	
performance	
interoperability	
usability	
✓ Correct	
Correct! This is a description of the system's availability.	
Which of these quality attributes is most important from the developer's perspective?	1/1 point
	- 17 I point
security	
flexibility	
usability	
usability	



- oresponse measure Output environment response ✓ Correct Correct! The artifact responds to the stimulus with a response.
- 24. **[Q24]** could be described as: **"the mode of the system when it receives a stimulus."** What is this called?

1 / 1 point



- O approach O context environment O scenario ✓ Correct Correct! This is called the environment.
- 25. General quality attributes like performance and security have more specific components like throughput and latency for performance. What are these called?

- attribute refinement
- sensitivity points
- architecture specifications
- architecturally significant requirements
 - Incorrect

Incorrect. Sensitivity points are processes in a system that could affect specific quality attributes.

26. Which strategy is **NOT** part of delivering a high-quality system?

1 / 1 point

1/1 point

- Adopt good documentation practices
- O Involve all stakeholders in design
- O Set rules for design and implementation
- Treat all quality attributes as equally important

✓ Correct

Correct. In an ideal world you could deliver high quality software in every respect, but time and resources will force you to make tradeoffs in the quality attributes, so it is important to prioritize them.

27. True or False: You should focus on situations that are outside the normal execution path when building a quality

	● True	
	○ False	
	✓ Correct Correct! These cases will likely be the source of most errors.	
28.	"Maintenance Downtime" is an attribute refinement of what quality attribute?	1/1 point
	○ Conceptual Integrity	
	○ Maintainability	
	Availability	
	Performance	
	Correct Correct! Availability is the amount of time the system is operational. Maintenance downtime takes away from the availability.	
29.	Eliza is planning a product line of media boxes. Some of these will connect to traditional television lines, whereas others will only have internet media like video-streaming services. What is this type of difference between products called?	1/1 point
	Adaptation	
	O Product-Specifics	
	Variation	
	Extension	
	✓ Correct	
	Correct! Variations are parts of the product line that some products do and some products do not have.	
30.	Mozilla Firefox and other browsers have ecosystems of add-ons for their browsers that add functionality, for example by blocking ads or providing tools for online shopping. What is this style of variation called?	1 / 1 point
	Replacement	
	Extension	
	Reference Architecture	
	Adaptation	
	✓ Correct	
	Correct! Typically a common interface is presented to which many of these add-ons can be fitted.	