

Course > High Le... > Quiz: H... > Quiz: H...

# Quiz: High Level Design

# Question 1

1/1 point (graded)

Which of the following challenges is more likely to arise with a Bottom Up Composition approach to Abstraction, and is less likely to arise with a Top Down Decomposition approach?

- making high level design decisions first can cause low level inconsistencies later on
- making low level implementation decisions first can cause high level inconsistencies later on ✓
- the same challenges will be faced no matter what approach is taken

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You have used 1 of 1 attempt

# Question 2

1/1 point (graded)

What is the main difference between Information Hiding and Encapsulation?

 information hiding: only applies to interfaces; encapsulation: only applies to concrete classes

	g: separating implementation from specification; encapsulation: varies from what stays the same
	g: separating what varies from what stays the same; parating implementation from specification 🗸
Submit You have	used 1 of 1 attempt
Question 3 /1 point (graded) A high quality Technica	
elect all that apply.	Il Representation should:
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elect all that apply.	Il Representation should:
be ambiguous	Il Representation should:
be ambiguous  be unambiguous	I Representation should:
be ambiguous  be unambiguous  be unambiguous  be accurate  be imprecise	ue for all stakeholders
be ambiguous  be unambiguous  be unambiguous  be accurate  be imprecise  provide equal va	

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#### Question 4

1/1 point (graded)

Which of the following techniques help contribute to better API usability? Select all that apply.

- exposing internal details of your API
- having a large API that does many things
- having well-named methods in your API
- updating method names in your API frequently
- providing examples of how to use methods in your API



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# Question 5

1/1 point (graded)

Which of the following are considered high level architectural constraints of REST based systems?

Select all that apply.

- ✓ clients accessing a REST service must use the URI naming scheme
- clients accessing a REST service are exposed to internal implementation details
- REST services communicate using intermediate representations

<b>4</b>	<b>REST</b> service	es are based o	n self-descriptive	hypermedia documents





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# Question 6

1/1 point (graded)

Which of the following is NOT true about Coupling?

- it negatively impacts the maintanability and evolvability of programs
- it minimizes interfaces between program elements
- it causes errors to propogate further when changes are made
- it makes code harder to reuse
- it makes code harder to understand

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# Question 7

1/1 point (graded)

Which of the following is NOT true about Cohesion?

it measures how well program elements belong together

- it encourages a larger number of smaller classes
- it helps to isolate changes
- it impedes software maintenance and evolution due to a larger number of classes



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# Question 8

1/1 point (graded)

Why is copying and pasting code problematic? Please select all that apply.

- because it is an example of needless complexity
- because any errors will be propogated to all clones
- because changing one clone means changing all clones
- it isn't actually problematic, because it is done in practice



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You have used 1 of 1 attempt

# Question 9

1/1 point (graded)

Which of the following are CORRECT definitions of the corresponding SOLID design principle?

Select all that apply.

Open/0	Closed: open to modification, closed to extension
Open/0	Closed: open to extension, closed to modification
Interfa	ce Segregation: clients should not depend on unnecessary interfaces
Interfa	ce Segregation: interfaces should do one thing, and do it well
Dependabstrac	dency Inversion: clients should depend on implementations, not ctions
•	dency Inversion: clients should depend on abstractions, not nentations
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