

Module II Quiz - Due April 09, 2020

Due No due date	Points 24	Questions 24	Available after Mar 2 at 12:14am	Time Limit None
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Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	7 minutes	24 out of 24

⚠ Correct answers are hidden.

Submitted Apr 6 at 4:15pm

Question 1

1 / 1 pts

You only need to construct one concrete scenario for each quality attribute because the environment will never be different.

☐ True

☒ False

Question 2

1 / 1 pts

To get the best use out of standard lists of quality attributes, you need to make sure that you strictly adhere to their terminology.

☐ True

☒ False

Question 3

1 / 1 pts

In order for systems to successfully communicate, they need to communicate both syntactically and semantically.

☒ True

☐ False

Question 4

1 / 1 pts

Concurrency is a powerful tool to increase performance but can also lead to race conditions.

☒ True

☐ False

Question 5

1 / 1 pts

An analysis of a quality attribute performed later in the software development life cycle can increase confidence the model is correct, but the cost of doing the analysis is also higher.

☒ True

☐ False

Question 6

1 / 1 pts

Maintaining an audit trail is not a valid security tactic because the attack was already likely achieved, so there is no value in the audit trail.

☐ True

☒ False

Question 7**1 / 1 pts**

In practice, it is ok for architects to violate architectural patterns in small ways if there is a good design tradeoff.

☒ True

☐ False

Question 8**1 / 1 pts**

In all tactics for availability which involve a spare component, the spare component has the same internal state as the active component at any point in time.

☐ True

☒ False

Question 9**1 / 1 pts**

Usability tactics should include gathering and displaying information about the system to the user.

☒ True

☐ False

Question 10

1 / 1 pts

You should perform an analysis of every quality attribute identified in your system.

☐ True

☒ False

Question 11

1 / 1 pts

Availability tactics are also about preventing faults as well as detecting and recovering from faults.

☒ True

☐ False

Question 12**1 / 1 pts**

Test automation is a valuable tool that allows for greater efficiency when testing as well as test repeatability.

☒ True

☐ False

Question 13**1 / 1 pts**

In constructing a scenario for the quality attribute of modifiability, what would the amount of labor necessary to make the modification be an example of?

☐ Stimulus

☐ Stimulus Source

☒ Response Measure

☐ Environment

Question 14**1 / 1 pts**

Reducing the amount of coupling between two modules sounds most like a tactic for:

- ☐ Availability
- ☐ Security
- ☐ Performance
- ☒ Modifiability

Question 15**1 / 1 pts**

Usability comprises which of the following areas?

- ☐ Using a system efficiently
- ☐ Minimizing the impact of errors
- ☐ Adopting the system to user needs
- ☒ All of the Above

Question 16**1 / 1 pts**

What is/are the necessary part(s) of a test case?

- ☐ Input
- ☐ Output
- ☐ Expected Output
- ☒ All of the Above

Question 17**1 / 1 pts**

An attacker being able to access your income tax returns on a government computer violates which security principle?

- ☒ Confidentiality
- ☐ Nonrepudiation
- ☐ Integrity
- ☐ Availability

Question 18

1 / 1 pts

Adding more resources to logical units, such as adding another server to a cluster of servers refers to what quality attribute?

- ☐ Variability
- ☐ Portability
- ☒ Scalability
- ☐ Development Distributability

Question 19

1 / 1 pts

Which quality attribute is defined as the degree to which two or more systems can usefully exchange meaningful information?

- ☐ Modifiability
- ☐ Performance

☐ Usability

☒ Interoperability

Question 20

1 / 1 pts

Which category of design decisions involves grouping based on the major modes of system operation?

☐ Data Model

☒ Allocation of Responsibilities

☐ Management of Resources

☐ Choice of Technology

Question 21

1 / 1 pts

Events arriving according to some probabilistic distribution is best known as:

☐ Sporadic

- ☐ Periodic
- ☒ Stochastic
- ☐ None of the Above

Question 22

1 / 1 pts

What is a design decision that influences the achievement of a quality attribute response?

- ☒ Architectural Tactic
- ☐ Quality Attribute Requirement
- ☐ Constraint
- ☐ Architectural Pattern

Question 23

1 / 1 pts

Which architectural pattern is defined by a series of transformations on data?

☒ Pipe-and-Filter Pattern

☐ Layered Pattern

☐ Client-Server Pattern

☐ Publish-Subscribe Pattern

Question 24

1 / 1 pts

Increasing the amount of cohesion in modules sounds most like a tactic for:

☐ Performance

☒ Modifiability

☐ Interoperability

☐ Security