

Quiz

Quiz 3

Opens at: Jan 20, 2024, 00:00

Due on: Jan 25, 2024, 23:59

Total Score6

Q1. Which of the following UML models capture the dynamic behavior of software systems?

Score: 1 Neg. Score: 0

- ☒ Sequence diagram (Your answer)
- ☐ Class diagram
- ☐ Use-case diagram
- ☒ State diagram (Your answer)

Your Score: 1

Q2. In the class hierarchy of a software system, Class A is the parent class of Class B. Which of the following is/are always true?

Score: 1 Neg. Score: 0

- ☒ An object of Class B is associated with more attributes than an object of Class A (Your answer)
- ☐ An object of Class A is associated with more attributes than an object of Class B
- ☐ The objects of Class A and Class B have equal number of attributes
- ☐ Class A cannot have any attribute

Your Score: 1

Q3. In a sequence diagram, a message communication shown by a dashed arrow with sticked arrowhead represents which of the following facts?

Score: 1 Neg. Score: 0

- ☐ The message takes negligible time to reach the receiver
- ☒ The sender of the message does not wait for a reply but can carry on with other processing (Your answer)
- ☐ The sender of the message waits for an acknowledgement from the receiver
- ☐ The message may be lost or get corrupted on the way



Your Score: 1

Q4.

A state machine of a software system has two state locations and two binary state variables, How many total states are there in the system?

Score: 1

Neg. Score: 0

6

4

2

✓ 8 (Your answer)

Your Score: 1

Q5.

Which of the following concepts are NOT available in functional software development Approach?

Score: 1

Neg. Score: 0

Function

✓ Object (Your answer)

✓ Class (Your answer)

Loop

Your Score: 1

Q6.

Suppose you have a base (parent) class Instrument" and three derived (children) classes Thermometer", Anemometer", and Barometer". Which of the following attributes are suitable to be included in the base class Instrument"?

Score: 1

Neg. Score: 0

Temperature

✓ The frequency of data collection (Your answer)

✓ Instrument identification number (Your answer)

Wind speed

Your Score: 1