

Module 1 Quiz

Quiz, 10 questions

✓ **Congratulations! You passed!**

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1. Which of the following are key concepts found in all object-oriented programming languages, according to the lessons in this module?

☐

Lambda expressions



Un-selected is correct

☐

Polymorphism



Correct

☐

Inheritance



Correct

☐

Transactional memory



Un-selected is correct

☐

Abstraction



Correct

☐

Concurrency



Un-selected is correct



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2. Which of the following are examples of data abstraction features supported by Java, according to the lessons in this module?

☐

Interfaces



Correct

☐

if statements



Un-selected is correct

☐

for loops



Un-selected is correct

☐

Classes



Correct



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3. Which of the following is the best definition of an "abstract data type" (ADT), according to the lessons in this module?

☐

An ADT defines an anonymous method that can be passed as an argument or returned as the value of method calls.

- ☐ An ADT separates the control flow paths of normal app execution from the control flow paths of anomalous app execution.
- ☐ An ADT selectively alters the flow of control through an app so it performs different computations based on programmer-specified conditions.
- ☒ An ADT defines a set of data values and a set of operations on these values.

Correct



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4. Which of the following are accurate descriptions of differences between Java classes and interfaces, according to the lessons in this module?

- ☐ A Java class can be part of a package, where as a Java interface can't.

Un-selected is correct

- ☐ A Java interface cannot be instantiated directly, whereas a class can.

Correct

- ☐ A Java interface provides a subset of the features provided by a Java class.

Correct



A Java class is a data abstraction mechanism, whereas a Java interface is a control abstraction mechanism



Un-selected is correct



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5. Which of the following are benefits of Java generics, according to the lessons in this module?



It separates the control flow paths of normal app execution from the control flow paths of anomalous app execution.



Un-selected is correct



They ensure compile-type safety when operating on different types.



Correct



They help eliminate unnecessary duplication of code.



Correct



They automatically reclaim and recycle objects that are not currently in use by an app.



Un-selected is correct



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6. Which of the following are benefits of inheritance in Java, according to the lessons in this module?

- ☐ It determines the order in which individual statements or method calls are evaluated or run.
- ☐ It provides a namespace for organizing Java code in a logical manner.
- ☐ It hides a class's internal representation to ensure apps using the class can only access its public operations.
- ☒ It enhances reuse by allowing classes to reuse common state and behavior from other class.

Correct



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7. Which of the following describe the purpose of exception handling in Java, according to the lessons in this module?

- ☐ It enables the repetition of a block containing one or more statements within an app.
- ☐ It simplifies the management of large software projects by avoiding collisions between classes that have the same common name.

Un-selected is correct

Un-selected is correct



It makes Java apps more robust and easier to understand and evolve.



Correct



It separates the control flow paths of normal app execution from the control flow paths of anomalous app execution.



Correct



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8. Which of the following describe the purpose of polymorphism in Java, according to the lessons in this module?



It separates the control flow paths of normal app execution from the control flow paths of anomalous app execution.



It enables transparent customization of methods in a subclass that are inherited from a super class.



It enables the passing of types as parameters to the definition of classes, interfaces, and methods.



This should not be selected



It defines an anonymous method that can be passed as an argument or returned as the value of method calls.



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9. Which of the following are expectations of learners who take this MOOC, according to the lessons in this module?

☐

You are expected you to have a Computer Science degree.



Un-selected is correct

☐

You are expected to be interested in both the concepts and practice of developing mobile apps



Correct

☐

You are expected have basic computer literacy skills, such as knowing how to send & receive emails and browse the web.



Correct

☐

You are expected to know how to program Java for Android apps.



Un-selected is correct



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10. Which of the following are recommended strategies for learning the material covered in this MOOC, according to the lessons in this module?

☐

Attend Coursera meet up groups near you.



Correct



Participate in the online discussion forums.



Correct



Watch the lessons carefully before taking the quizzes and doing the programming assignments.



Correct



Follow the links to articles, tutorials, source code, and documentation provided in the lesson slides.



Correct

