

What is a local class in Java?

- A. A class defined within a method
- B. A class with local variables
- C. A class with local objects
- D. A class that cannot be inherited

Correct Answer: A

What is a static class in Java?

- A. A class that cannot be instantiated
- B. A class that belongs to a static method
- C. A class with only static methods
- D. A class that does not require object creation

Correct Answer: A

Which of the following is true about inner classes in Java?

- A. They can access members of the outer class
- B. They cannot be instantiated directly
- C. They must be static
- D. They cannot have methods

Correct Answer: A

What is the difference between an abstract class and an interface?

- A. An abstract class can have implemented methods
- B. An interface can have private methods
- C. An interface can be instantiated
- D. Both are the same

Correct Answer: A

What is the correct way to create a nested class in Java?

- A. `class Outer { class Inner {} }`
- B. `class Outer class Inner {}`
- C. `class Outer { static Inner {} }`
- D. `class Inner { class Outer {} }`

Correct Answer: A

Which of the following types of classes cannot be instantiated directly?

- A. Abstract classes
- B. Concrete classes
- C. Static classes
- D. Final classes

Correct Answer: A

In the context of inner classes, which of the following is true?

- A. Non-static inner classes can access the outer class's non-static members
- B. Non-static inner classes cannot access static members of the outer class
- C. Static inner classes must be instantiated using the outer class instance
- D. Non-static inner classes can only access private members of the outer class

Correct Answer: A