

# 13 Lecture - CS506

## Important Mcqs

Certainly, here are 10 multiple-choice questions (MCQs) related to Adapter Classes, along with their solutions and multiple options:

**\*\*Question 1: What is the purpose of an Adapter Class in Java?\***

- a) To connect different classes in an application
- b) To provide default implementations for interfaces
- c) To handle database connections
- d) To manage exceptions in a program

**\*\*Solution: b) To provide default implementations for interfaces\*\***

**\*\*Question 2: Adapter classes are often used in which type of programming in Java?\***

- a) Event handling
- b) Networking
- c) Multithreading
- d) File I/O

**\*\*Solution: a) Event handling\*\***

**\*\*Question 3: Which Java interface can be extended using an Adapter class for handling mouse events?\***

- a) ActionListener
- b) MouseListener
- c) KeyListener
- d) WindowListener

**\*\*Solution: b) MouseListener\*\***

**\*\*Question 4: What is the main benefit of using an Adapter class for event handling in Java?\*\***

- a) It simplifies database connections
- b) It reduces the need for interfaces
- c) It provides default implementations, allowing developers to override only necessary methods
- d) It automatically handles exceptions

**\*\*Solution: c) It provides default implementations, allowing developers to override only necessary methods\*\***

**\*\*Question 5: Which Adapter class is commonly used for handling window-related events in Java?\*\***

- a) WindowAdapter
- b) ActionListenerAdapter
- c) MouseAdapter
- d) KeyAdapter

**\*\*Solution: a) WindowAdapter\*\***

**\*\*Question 6: Which Adapter class can be extended for handling focus-related events in Java?\*\***

- a) FocusListenerAdapter
- b) MouseAdapter
- c) ActionListenerAdapter
- d) FocusAdapter

**\*\*Solution: d) FocusAdapter\*\***

**\*\*Question 7: In Java, Adapter classes are part of which package?\*\***

- a) java.util
- b) java.io
- c) java.awt
- d) javax.swing

**\*\*Solution: c) java.awt\*\***

**\*\*Question 8: When using an Adapter class, which methods are overridden by the developer?\*\*\***

- a) All methods defined in the interface
- b) Only the methods defined in the Adapter class
- c) Only the methods needed for the specific application
- d) No methods need to be overridden

**\*\*Solution: c) Only the methods needed for the specific application\*\***

**\*\*Question 9: Which event handling mechanism often benefits from the use of Adapter classes?\*\*\***

- a) Network events
- b) File I/O events
- c) GUI events
- d) Database events

**\*\*Solution: c) GUI events\*\***

**\*\*Question 10: What is the purpose of creating custom Adapter classes in Java?\*\*\***

- a) To override all methods of a given interface
- b) To provide unique default implementations for interfaces
- c) To extend the functionality of built-in classes
- d) To eliminate the need for interfaces in event handling

**\*\*Solution: b) To provide unique default implementations for interfaces\*\***