

# 1 Lecture - CS506

## Important Mcqs

Sure, here are 10 multiple-choice questions (MCQs) related to Java features along with their solutions and multiple options:

### **\*\*Question 1:\*\***

**Which feature of Java allows you to create reusable, modular code by organizing it into classes and objects?**

- a) Inheritance
- b) Encapsulation
- c) Abstraction
- d) Polymorphism

**\*\*Solution:\*\* b) Encapsulation**

### **\*\*Question 2:\*\***

**Java's platform independence is achieved through:**

- a) Bytecode compilation
- b) Native compilation
- c) Source code compilation
- d) Assembly compilation

**\*\*Solution:\*\* a) Bytecode compilation**

### **\*\*Question 3:\*\***

**Which Java feature is used to handle unexpected events and errors in a program?**

- a) Polymorphism

- b) Exception handling
- c) Inheritance
- d) Encapsulation

**\*\*Solution:\*\* b) Exception handling**

**\*\*Question 4:\*\***

**Which Java feature allows multiple threads to run concurrently, improving program performance?**

- a) Polymorphism
- b) Abstraction
- c) Inheritance
- d) Multithreading

**\*\*Solution:\*\* d) Multithreading**

**\*\*Question 5:\*\***

**Java's memory management is automatic through:**

- a) Pointers
- b) Garbage Collection
- c) Manual memory allocation
- d) Destructors

**\*\*Solution:\*\* b) Garbage Collection**

**\*\*Question 6:\*\***

**What Java feature provides a blueprint for creating objects with attributes and methods?**

- a) Polymorphism
- b) Inheritance
- c) Abstraction

d) Class

**\*\*Solution:\*\* d) Class**

**\*\*Question 7:\*\***

**Which Java feature allows a subclass to inherit properties and behaviors from a superclass?**

- a) Overloading
- b) Overriding
- c) Polymorphism
- d) Inheritance

**\*\*Solution:\*\* d) Inheritance**

**\*\*Question 8:\*\***

**Java's "final" keyword is used for:**

- a) Declaring a constant variable
- b) Implementing an interface
- c) Creating an abstract class
- d) Enabling multiple inheritance

**\*\*Solution:\*\* a) Declaring a constant variable**

**\*\*Question 9:\*\***

**Which Java feature enables a single class to provide different implementations of methods based on input parameters?**

- a) Overriding
- b) Overloading
- c) Polymorphism
- d) Abstraction

**\*\*Solution:\*\* b) Overloading**

**\*\*Question 10:\*\***

**Which Java feature allows a class to inherit properties and behaviors from multiple interfaces?**

- a) Multiple inheritance
- b) Multithreading
- c) Encapsulation
- d) Abstract classes

**\*\*Solution:\*\* a) Multiple inheritance**