

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**