

# 4 Lecture - CS506

## Important Mcqs

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

**\*\*Question 1:\*\* What is encapsulation in Object-Oriented Programming?**

**\*\*Options:\*\***

- A) Inheritance
- B) Polymorphism
- C) Data hiding and bundling
- D) Abstraction

**\*\*Solution:\*\* C) Data hiding and bundling**

**\*\*Question 2:\*\* Which OOP concept allows a class to inherit properties and behaviors from another class?**

**\*\*Options:\*\***

- A) Encapsulation
- B) Polymorphism
- C) Abstraction
- D) Inheritance

**\*\*Solution:\*\* D) Inheritance**

**\*\*Question 3:\*\* What does the "this" keyword refer to in Java?**

**\*\*Options:\*\***

- A) The current instance of the class
- B) The superclass
- C) A reserved keyword
- D) A static method

**\*\*Solution:\*\* A) The current instance of the class**

**\*\*Question 4:\*\* Which OOP principle allows a single interface to be implemented by multiple classes?**

**\*\*Options:\*\***

- A) Encapsulation
- B) Polymorphism
- C) Inheritance
- D) Abstraction

**\*\*Solution:\*\* B) Polymorphism**

**\*\*Question 5:\*\* What is a constructor in OOP?**

**\*\*Options:\*\***

- A) A method used to destroy objects
- B) A method used to create objects
- C) A keyword to access class properties
- D) A data type used for class design

**\*\*Solution:\*\* B) A method used to create objects**

**\*\*Question 6:\*\* In OOP, what does the term "method overloading" mean?**

**\*\*Options:\*\***

- A) Creating a new method in a subclass
- B) Changing the name of a method in a class
- C) Creating multiple methods in a class with the same name but different parameters
- D) Overriding a superclass method in a subclass

**\*\*Solution:\*\* C) Creating multiple methods in a class with the same name but different parameters**

**\*\*Question 7:\*\* Which access modifier in Java allows a variable or method to be accessible within the same package?**

**\*\*Options:\*\***

- A) private
- B) public
- C) protected
- D) default

**\*\*Solution:\*\* D) default**

**\*\*Question 8:\*\* What is a class in Object-Oriented Programming?**

**\*\*Options:\*\***

- A) An instance of an object
- B) A blueprint for creating objects
- C) A type of variable
- D) A static method

**\*\*Solution:\*\* B) A blueprint for creating objects**

**\*\*Question 9:\*\* Which OOP concept allows a class to have multiple methods with the same name but different parameters?**

**\*\*Options:\*\***

- A) Overloading
- B) Overriding
- C) Inheritance
- D) Polymorphism

**\*\*Solution:\*\* A) Overloading**

**\*\*Question 10:\*\* What is abstraction in OOP?**

**\*\*Options:\*\***

- A) A way to hide implementation details and show only necessary features of an object
- B) A type of error in programming
- C) A data type in Java
- D) A way to create instances of a class

**\*\*Solution:\*\* A) A way to hide implementation details and show only necessary features of an object**