

# 39 Lecture - CS506

## Important Mcqs

Sure, here are 10 multiple-choice questions (MCQs) related to MVC (Model-View-Controller) along with a case study, solutions, and multiple options:

**\*\*Question 1:\*\* What does MVC stand for in software development?**

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

- A) Multi-Version Control
- B) Model-View-Creation
- C) Model-View-Controller
- D) Main-View-Context

**\*\*Solution:\*\* C) Model-View-Controller**

**\*\*Question 2:\*\* Which component in MVC is responsible for managing application logic and user interactions?**

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

- A) Model
- B) View
- C) Controller
- D) Middleware

**\*\*Solution:\*\* C) Controller**

**\*\*Question 3:\*\* What is the primary benefit of using the MVC design pattern?**

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

- A) Faster data retrieval
- B) Simplified database design
- C) Improved code organization and maintainability
- D) Enhanced user interface design

**\*\*Solution:\*\* C) Improved code organization and maintainability**

**\*\*Question 4:\*\* In MVC, what does the "Model" represent?**

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

- A) User interface
- B) Application logic
- C) Database and data-related operations
- D) Displayed content

**\*\*Solution:\*\* C) Database and data-related operations**

**\*\*Question 5:\*\* Which component of MVC is responsible for rendering data and user interface presentation?**

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

- A) Model
- B) Controller
- C) View
- D) UIHandler

**\*\*Solution:\*\* C) View**

**\*\*Question 6:\*\* In an e-commerce website, which MVC component would handle the addition of products to a shopping cart?**

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

- A) Model
- B) View
- C) Controller
- D) Middleware

**\*\*Solution:\*\* C) Controller**

**\*\*Question 7:\*\* Which MVC component would be responsible for storing product information like name, price, and quantity in an e-commerce website?**

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

- A) Model
- B) View
- C) Controller
- D) Database

**\*\*Solution:\*\* A) Model**

**\*\*Question 8:\*\* How does MVC promote code reusability in software development?**

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

- A) By allowing direct database access in the Controller
- B) By eliminating the need for a user interface
- C) By separating concerns and isolating functionalities in different components
- D) By embedding all code in a single file

**\*\*Solution:\*\* C) By separating concerns and isolating functionalities in different components**

**\*\*Question 9:\*\* Which MVC component would determine how product details are displayed in an e-commerce website?**

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

- A) Model
- B) View
- C) Controller
- D) Stylesheet

**\*\*Solution:\*\* B) View**

**\*\*Question 10:\*\* What is the role of the Controller in the MVC pattern?**

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

- A) Displaying data to the user
- B) Managing application data and interactions
- C) Defining the layout and styles of the user interface
- D) Storing data in a database

**\*\*Solution:\*\* B) Managing application data and interactions**