

40 Lecture - CS506

Important Mcqs

Sure, here are 10 multiple-choice questions (MCQs) related to Model 2 Architecture (MVC) with solutions and multiple options:

****Question 1:** What is the primary goal of Model 2 Architecture (MVC)?**

****Options:****

- A) Optimize database performance
- B) Simplify user interface design
- C) Separate concerns in web applications
- D) Enhance network connectivity

****Solution:** C) Separate concerns in web applications**

****Question 2:** In Model 2 Architecture, which component is responsible for managing data and business logic?**

****Options:****

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

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

****Question 3:** What does the View component represent in Model 2 Architecture?**

****Options:****

- A) Data and logic handling
- B) User interface presentation
- C) Application flow control
- D) URL routing

****Solution:** B) User interface presentation**

****Question 4:** Which component handles user interactions and communicates between Model and View in Model 2 Architecture?**

****Options:****

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

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

****Question 5:** What benefit does Model 2 Architecture offer for web application development?**

****Options:****

- A) Faster database queries
- B) Complex user interface design
- C) Separation of concerns for improved maintainability
- D) Direct interaction with hardware devices

****Solution:** C) Separation of concerns for improved maintainability**

****Question 6:** In Model 2 Architecture, how does the Controller communicate with the Model and View?**

****Options:****

- A) By directly accessing the Model's data
- B) Through direct modification of the View's UI elements
- C) By handling user interactions and coordinating actions
- D) By managing database connections

****Solution:** C) By handling user interactions and coordinating actions**

****Question 7:** Which component of Model 2 Architecture is responsible for rendering HTML and displaying data?**

****Options:****

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

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

****Question 8:** How does Model 2 Architecture contribute to code reusability?**

****Options:****

- A) It eliminates the need for a database
- B) It centralizes all code in a single component
- C) It isolates different application concerns for modular development
- D) It simplifies user interface design

****Solution:** C) It isolates different application concerns for modular development**

****Question 9:** What role does the Controller play in Model 2 Architecture?**

****Options:****

- A) Managing data storage in the Model
- B) Handling user interactions and application flow
- C) Rendering data in the View
- D) Controlling user authentication

****Solution:** B) Handling user interactions and application flow**

****Question 10:** What purpose does Model 2 Architecture serve in web development?**

****Options:****

- A) To create complex UI animations
- B) To replace server-side scripting languages
- C) To enhance database query performance
- D) To organize and separate components for scalable web applications

****Solution:** D) To organize and separate components for scalable web applications**