

34 Lecture - CS506

Important Mcqs

Certainly, here are 10 multiple-choice questions (MCQs) related to JavaServer Pages (JSP), along with their solutions and multiple options:

****Question 1:** What is JavaServer Pages (JSP)?**

****Options:****

- A) A programming language
- B) A web server
- C) A markup language
- D) A technology for creating dynamic web pages

****Solution:** D) A technology for creating dynamic web pages**

****Question 2:** Which technology is often used in combination with JSP for creating dynamic web applications?**

****Options:****

- A) JavaScript
- B) CSS
- C) HTML
- D) Java Servlets

****Solution:** D) Java Servlets**

****Question 3:** What is the file extension for a JavaServer Pages file?**

****Options:****

- A) .jspx
- B) .jsp
- C) .java
- D) .js

****Solution:** B) .jsp**

****Question 4:** How does JSP differ from servlets?**

****Options:****

- A) JSP is only used for client-side scripting.
- B) Servlets are text-based templates for web pages.
- C) JSP allows embedding Java code in HTML.
- D) Servlets do not support database interactions.

****Solution:** C) JSP allows embedding Java code in HTML.**

****Question 5:** Which JSP element is used to write Java code in JSP pages?**

****Options:****

- A) ``<java>``
- B) ``<script>``
- C) ``<% %>``
- D) ``<code>``

****Solution:** C) ``<% %>``**

****Question 6:** What is the purpose of JSP directives?**

****Options:****

- A) They define the appearance of web pages.
- B) They control the flow of program execution.
- C) They import Java classes into the JSP page.
- D) They create forms for user input.

****Solution:** C) They import Java classes into the JSP page.**

****Question 7:** What is the significance of the JSP expression language?**

****Options:****

- A) It allows for server-side scripting in JSP.
- B) It simplifies the embedding of Java code in HTML.
- C) It enforces strict separation of HTML and Java.
- D) It defines the layout of JSP pages.

****Solution:** B) It simplifies the embedding of Java code in HTML.**

****Question 8:** How is JSP translated and executed by the server?**

****Options:****

- A) JSP is translated into Java bytecode and executed by the client.
- B) JSP is translated into servlet code and executed by the server.
- C) JSP is translated into HTML and executed by the client.
- D) JSP is translated into JavaScript and executed by the client.

****Solution:** B) JSP is translated into servlet code and executed by the server.**

****Question 9:**** Which JSP tag is used to declare variables?

****Options:****

A) ``<define>``

B) ``<set>``

C) ``<var>``

D) ``<declare>``

****Solution:**** C) ``<var>``

****Question 10:**** How does JSP contribute to MVC (Model-View-Controller) architecture?

****Options:****

A) JSP handles data manipulation.

B) JSP focuses on user interface design.

C) JSP represents the controller.

D) JSP defines business logic.

****Solution:**** B) JSP focuses on user interface design.