

34 Lecture - CS506

Important Subjective

Certainly, here are 10 short-answer questions related to JavaServer Pages (JSP), along with their answers:

****Question 1:**** What is the primary purpose of JavaServer Pages (JSP)?

****Answer:**** JSP is used to create dynamic web pages by allowing Java code to be embedded within HTML.

****Question 2:**** How does JSP differ from Java Servlets?

****Answer:**** JSP combines Java code with HTML, making it easier to create dynamic content, while Servlets focus on Java code to handle requests and responses.

****Question 3:**** What are JSP directives?

****Answer:**** JSP directives provide instructions to the container about how to translate and execute the JSP page. They are used to import classes, set content type, etc.

****Question 4:**** What is the purpose of the JSP expression language?

****Answer:**** The JSP expression language simplifies embedding Java expressions within HTML, making it easier to retrieve and display dynamic data.

****Question 5:**** How is a JSP page translated and executed by the server?

****Answer:**** The JSP page is first translated into a Java servlet and then compiled into bytecode. The servlet is executed by the server to generate HTML for the client.

****Question 6:** What is the role of JSP tags?**

****Answer:** JSP tags provide dynamic content and control structures. They allow insertion of Java code into the HTML and enable the generation of dynamic content.**

****Question 7:** How is a JSP session managed?**

****Answer:** JSP sessions are managed using implicit objects like `session` that provide access to session-related information, allowing data to be stored and retrieved across requests.**

****Question 8:** What is the difference between a JSP declaration and a scriptlet?**

****Answer:** A declaration is used to define variables and methods that can be used throughout the JSP page, while a scriptlet contains Java code that generates dynamic content.**

****Question 9:** How can JSP tags be categorized?**

****Answer:** JSP tags can be categorized as standard actions (provided by JSP) and custom actions (defined by developers), which allow for modular and reusable components.**

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

****Answer:** JSP primarily represents the view in the MVC architecture, focusing on the presentation and user interface aspects of a web application.**