

# 37 Lecture - CS506

## Important Subjective

Certainly, here are 10 short-answer questions related to JSP Action Elements and Scope, along with their answers:

**Question 1:** What are JSP Action Elements, and what is their purpose?

**Answer:** JSP Action Elements are special tags used in JSP pages to perform specific tasks like creating JavaBeans, setting/getting their properties, including content from other resources, and more.

**Question 2:** What is the role of the `<jsp:useBean>` action element?

**Answer:** `<jsp:useBean>` is used to instantiate a JavaBean or retrieve an existing instance from a particular scope.

**Question 3:** Explain the purpose of `<jsp:setProperty>` and `<jsp:getProperty>`.

**Answer:** `<jsp:setProperty>` sets values for JavaBean properties, and `<jsp:getProperty>` retrieves and displays JavaBean property values in JSP.

**Question 4:** What is the difference between page scope and request scope in JSP?

**Answer:** Page scope is limited to a single JSP page, while request scope lasts for the duration of a single client request and its included resources.

**Question 5:** What happens to a JavaBean declared using `<jsp:useBean>` if it already exists in the specified scope?

**\*\*Answer:\*\*** If the JavaBean already exists, `<jsp:useBean>` retrieves the existing instance from the scope.

**\*\*Question 6:\*\*** What is the significance of the session scope in JSP?

**\*\*Answer:\*\*** The session scope retains data across multiple requests from the same user until their session ends.

**\*\*Question 7:\*\*** How does the `<jsp:include>` action element work?

**\*\*Answer:\*\*** `<jsp:include>` is used to include the content of another resource, such as a JSP or HTML file, within the current JSP page.

**\*\*Question 8:\*\*** Explain the purpose of the `<jsp:forward>` action element.

**\*\*Answer:\*\*** `<jsp:forward>` redirects the user's request to another resource, such as a JSP or servlet.

**\*\*Question 9:\*\*** How can you remove a JavaBean from a scope using JSP?

**\*\*Answer:\*\*** The `<jsp:removeBean>` action element removes a JavaBean from its scope, making it eligible for garbage collection.

**\*\*Question 10:\*\*** What is the application scope in JSP?

**\*\*Answer:\*\*** The application scope is shared among all users of an application and holds data that remains accessible throughout the application's lifecycle.