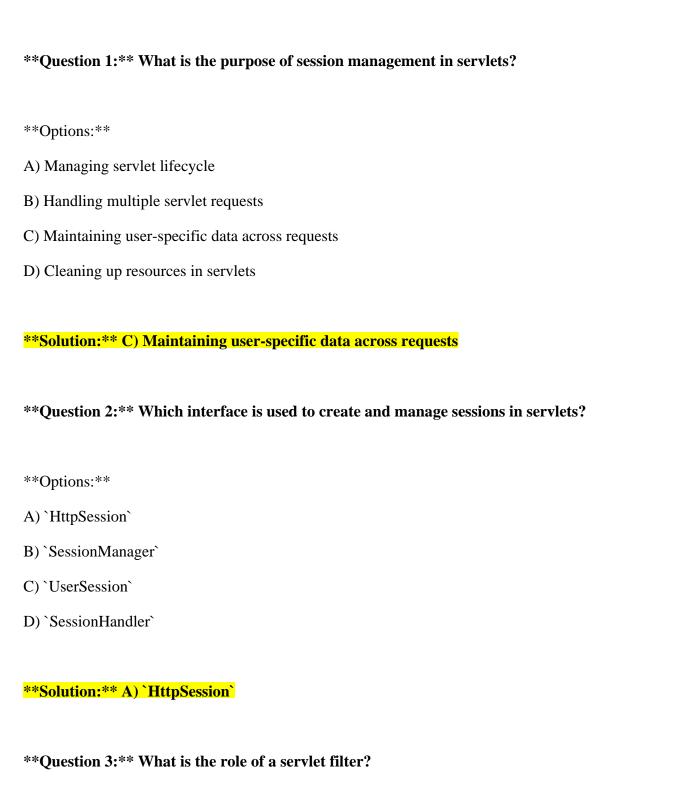
## **29 Lecture - CS506**

## **Important Mcqs**

Absolutely, here are 10 multiple-choice questions (MCQs) related to advanced topics in Servlets, along with their solutions and multiple options:



**Options:**
A) Processing user inputs in servlets
B) Handling HTTP requests and responses
C) Preprocessing and postprocessing requests and responses
D) Managing session data in servlets
**Solution:** C) Preprocessing and postprocessing requests and responses
**Question 4:** Which method is used to apply a filter to a specific URL pattern in a servlet?
**Options:**
A) `addFilter()`
B) `applyFilter()`
C) `setFilter()`
D) `addFilterMapping()`
**Solution:** D) `addFilterMapping()`  **Question 5:** What is the purpose of a servlet listener?
**Options:**
A) Managing servlet lifecycle
B) Handling session data
C) Monitoring client requests
D) Responding to events in a web application
**Solution:** D) Responding to events in a web application
**Question 6:** Which listener is used to track attribute changes in the `HttpSession`?

**Options:**
A) `SessionAttributeListener`
B) `ServletContextListener`
C) `RequestListener`
D) `RequestAttributeListener`
**Solution:** A) `SessionAttributeListener`
**Question 7:** How does a servlet interact with a database using JDBC?
**Options:**
A) By sending SQL queries via GET requests
B) By directly embedding SQL in the servlet code
C) By using a separate configuration file for database connection
D) By invoking JDBC methods to connect, query, and update the database
**Solution:** D) By invoking JDBC methods to connect, query, and update the database  **Question 8:** Which interface is used to represent a database connection in JDBC?
**Options:**
A) `Connection`
B) `Database`
C) `SqlConnection`
D) `DbConnection`
**Solution:** A) `Connection`

**Question 9:** What is the purpose of the `contextInitialized()` method in `ServletContextListener`?
**Options:**
A) Initializing servlet resources
B) Handling session events
C) Executing before a servlet is initialized
D) Executing after a servlet is destroyed
**Solution:** C) Executing before a servlet is initialized
**Question 10:** How can you handle exceptions globally in a servlet application?
**Options:**
A) By using try-catch blocks in every servlet
B) By setting a global exception handler in the `web.xml` file
C) By utilizing servlet filters to catch and handle exceptions
D) By embedding exception handling code in the `init()` method
**Solution:** B) By setting a global exception handler in the `web.xml` file