## 14 Lecture - CS506

## **Important Mcqs**

Certainly, here are 10 multiple-choice questions (MCQs) related to Java Database Connectivity (JDBC), along with their solutions and multiple options:

| **Question 1: What does JDBC stand for in Java programming?**                    |
|--|
| a) Java Data Buffer Connectivity   |
| b) Java Database Control   |
| c) Java Database Connectivity  |
| d) Java Data Binding Control   |
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| **Solution: c) Java Database Connectivity**                                      |
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| **Question 2: Which Java package provides the classes and interfaces for JDBC?** |
| a) java.sql  |
| b) java.db   |
| c) java.jdbc   |
| d) java.connectivity   |
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| **Solution: a) java.sql**  |
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| **Question 3: What is the purpose of JDBC in Java programming?**                 |
| a) Managing networking protocols   |

b) Handling GUI components

c) Enabling database interaction

d) Managing file I/O operations

| **Solution: c) Enabling database interaction**  |
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| **Question 4: What is a JDBC driver?**  |
| a) A class that manages GUI components  |
| b) A component for handling networking  |
|   |
| c) A software component for connecting to databases   |
| d) A module for managing file operations  |
| **Solution: c) A software component for connecting to databases**   |
| **Question 5: Which type of JDBC driver is platform-independent and communicates through a database network protocol?** |
| a) Type 1   |
| b) Type 2   |
| c) Type 3   |
| d) Type 4   |
| **Solution: d) Type 4**   |
| **Question 6: Which interface is responsible for creating and managing connections in JDBC?**                           |
| a) ConnectionManager  |
| b) DatabaseConnector  |
| c) ConnectionFactory  |
| d) Connection   |
| **Solution: d) Connection**   |
| **Question 7: What is the role of PreparedStatement in JDBC?**  |
| a) Managing database schema   |

| c) Executing parameterized SQL queries   |
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| d) Handling GUI components   |
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| **Solution: c) Executing parameterized SQL queries**                                   |
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| **Question 8: Which interface is used to retrieve and process query results in JDBC?** |
| a) DataProcessor   |
| b) ResultSet   |
| c) QueryResult   |
| d) DataRetriever   |
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| **Solution: b) ResultSet**   |
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| **Question 9: Which method is used to establish a database connection in JDBC?**       |
| a) executeQuery()  |
| b) connect()   |
| c) getConnection()   |
| d) openConnection()  |
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| **Solution: c) getConnection()**   |
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| **Question 10: What is the purpose of the DriverManager class in JDBC?**               |
| a) Executing SQL queries   |
| b) Managing database schema  |
| c) Loading database drivers and establishing connections                               |
| d) Handling GUI components   |
|  |
| **Solution: c) Loading database drivers and establishing connections**                 |

b) Storing database credentials