



---

## OBJECT ORIENTED PROGRAMMING WITH JAVA

### Assignment11

TYPE OF QUESTION: MCQ

Number of questions: 10

Total mark:  $10 \times 1 = 10$

---

#### **QUESTION 1:**

Which of the following statements is true regarding the `executeQuery( )` method of the `java.sql.Statement` interface in Java Database Connectivity (JDBC)?

- a. The `executeQuery( )` method is used to execute a DELETE statement.
- b. The `executeQuery( )` method is used to execute a SELECT statement.
- c. The `executeQuery( )` method is used to execute an INSERT statement.
- d. The `executeQuery( )` method is used to execute an UPDATE statement.

**Correct Answer: b**

#### **Detailed Solution:**

The `executeQuery( )` method is used to execute a SELECT statement.

---

#### **QUESTION 2:**

In JDBC, which component is responsible for managing a connection to the database?

- a. DriverManager
- b. Connection
- c. Statement
- d. ResultSet

**Correct Answer: a**

#### **Detailed Solution:**

DriverManager is responsible for managing a connection to the database.

---



---

**QUESTION 3:**

**What is the primary purpose of a PreparedStatement in JDBC?**

- a. To execute stored procedures.
- b. To execute SQL queries with parameters.
- c. To execute batch updates.
- d. To retrieve metadata about the database.

**Correct Answer: b**

**Detailed Solution:**

The PreparedStatement interface is used to execute parameterized SQL statements in JDBC.

---

**QUESTION 4:**

**Which exception is commonly thrown when there is a failure in JDBC database connectivity?**

- a. FileNotFoundException
- b. NullPointerException
- c. SQLException
- d. ClassNotFoundException

**Correct Answer: c**

**Detailed Solution:**

SQLException is thrown when there is a failure in JDBC database connectivity.

---

**QUESTION 5:**

**What is a "JDBC driver" in the context of database connectivity?**

- a. A database management system.
- b. A Java class for executing SQL queries.
- c. A software component that provides a bridge between Java applications and a specific database.
- d. A tool for generating SQL statements.

**Correct Answer: c**



---

**Detailed Solution:**

**JDBC driver:** A software component that provides a bridge between Java applications and a specific database.

---

**QUESTION 6:**

**Which package in Java contains the classes and interfaces for JDBC?**

- a. java.sql
- b. java.io
- c. java.db
- d. java.net

**Correct Answer: a**

**Detailed Solution:**

java.sql package in Java contains the classes and interfaces for JDBC.

---

**QUESTION 7:**

**Which method is used to execute a batch of SQL statements in JDBC?**

- a. executeBatch( )
- b. executeUpdateBatch( )
- c. executeBatchUpdate( )
- d. executeUpdate( )

**Correct Answer: a**

**Detailed Solution:**

Batch updates in JDBC allow multiple SQL statements to be executed in a single transaction. They can be used for any type of SQL statement, including INSERT, UPDATE, and DELETE. Batch updates are executed when the batch is executed, either explicitly using the executeBatch( ) method or implicitly when the batch size limit is reached. Batch updates can be rolled back using the rollback( ) method.

---



---

**QUESTION 8:**

**Which method is used to move the cursor to the next row in a ResultSet?**

- a. nextRow()
- b. next()
- c. moveNext()
- d. moveRow()

**Correct Answer: b**

**Detailed Solution:**

The next() method moves the cursor to the next row.

---

**QUESTION 9:**

**Which type of JDBC driver is also known as the "Thin driver"?**

- a. Type 1 driver
- b. Type 2 driver
- c. Type 3 driver
- d. Type 4 driver

**Correct Answer: d**

**Detailed Solution:**

JDBC: Type 4 - Thin Driver

The thin driver converts JDBC calls directly into the vendor-specific database protocol. That is why it is known as thin driver. It is fully written in Java language.

---

**QUESTION 10:**

**Which type of JDBC driver is a pure Java driver that communicates with the database using a middleware server?**

- a. Type 1 driver
- b. Type 2 driver
- c. Type 3 driver
- d. Type 4 driver

**Correct Answer: c**

**Detailed Solution:**



NPTEL Online Certification Courses  
Indian Institute of Technology Kharagpur



---

JDBC: Type 3 - Network Protocol

The network protocol driver uses middleware (application server) that converts JDBC calls directly or indirectly into the vendor-specific database protocol. It is fully written in java.

---