

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

****Solution: c) Java Database Connectivity****

****Question 2: Which Java package provides the classes and interfaces for JDBC?***

- a) java.sql
- b) java.db
- c) java.jdbc
- d) java.connectivity

****Solution: a) java.sql****

****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****

****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

- b) Storing database credentials
- c) Executing parameterized SQL queries
- d) Handling GUI components

****Solution: c) Executing parameterized SQL queries****

****Question 8: Which interface is used to retrieve and process query results in JDBC?*****

- a) DataProcessor
- b) ResultSet
- c) QueryResult
- d) DataRetriever

****Solution: b) ResultSet****

****Question 9: Which method is used to establish a database connection in JDBC?*****

- a) executeQuery()
- b) connect()
- c) getConnection()
- d) openConnection()

****Solution: c) getConnection()****

****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****