Department of Computer Science & Engineering

QUESTION BANK FOR V SEM (CSE) (Autonomous Syllabus)

Subject Code: CSL56   **TERM: Oct-Feb 2022**   **I.A. Marks: 50**
Subject Name: Advanced Java Programming Lab   **Exam Hours: 03**
Credits: 0:0:1   **Exam Marks: 50**

Design, develop, and implement the following programs in Java

1.	Write a JAVA-JDBC program to create the table named **Department** with the attributes Dept_ID, Name, Year_Established, Head_Name, No_of_Employees. i. Find the number employees in a CSE department. ii. List Name, Dept_ID of all the departments which are established in the year 2010.
2.	Write a JAVA-JDBC program that connects to the database **College** with **Student**table. Assume appropriate attributes for the Student table. Write a program to display the details of those Students who have CGPA less than 9. Also update the Student table to change the CGPA of student named "John" from 8.50 to 9.4 using *updatable result set*. Finally display the results and disconnect from the database.
3.	Write a java servlet program that loads area and phone no. of police station of that area from a database. It takes area or phone number as input and prints the corresponding fields. (Note: Create police_station table with appropriate fields)
4.	Write a Java Servlet program with a function called **initials()** that takes input representing a full name and returns the initials of the name in all capital letters. **Example:** If Input is Robert B. Qwerty then Output should be RBQ.

5.	Write a Java Servlet program to insert Employee details like Emp_ID, Employee_Name, Address, Date_of_Birth in Employee table using JDBC and display the details in table format.
6.	Develop a JSP application that has the following pages. The index page **register.html** contains 2 text boxes for entering username and password. Provide a button "Register". Once the Register button is clicked the page should be redirected to welcome.jsp. In welcome.jsp validate username and password and display welcome message for a valid user. **(Use Sessions)**
7.	Write a JSP that takes the user's name and age from a form. Echo back the name and age along with a message stating the price of movie tickets. • The price is determined by the age passed to the JSP. • If the age is greater than 62, the movie ticket price is Rs. 50. • If the user is less than 10 years old, the price is Rs. 30. • For everyone else, the price is Rs. 80.
8.	Write a JSP program to create a form with Book_No, Title, Author, Publication, Price and a Submit button. Using JSP-Database connectivity, get the data from the form and insert the records into the database. Retrieve the book details for the particular title and display the details.

Marks Distribution:

Write-Up	Execution	Change of Program	Total
4	16	-5 marks	20 Marks

HOD, Dept. of CSE