

CHRIST (Deemed to be University)

BENGALURU – 560 029

DEPARTMENT OF COMPUTER SCIENCE

ESE COMPONENT-2 EXAMINATION – JANUARY 2024

COURSE CODE/ COURSE NAME: MCA272 – JAVA PROGRAMMING.

PROGRAM – MCA Time Duration – 1.30 hrs Marks – 40 Marks

1. Develop a Bank Management System using Java Swing components to create an intuitive Bank Registration Form. The form should capture essential details such as Bank Employee ID, Name, Age, Designation, and Department/section. Ensure that the entered data is stored in a database table named 'Bank.' Additionally, implement a search operation allowing users to retrieve bank employee information based on either the name or department criteria.

Rubrics

R1- Form Design – 10 marks, R2- Employee Table -10 marks, R3-search by name – 10 marks, R4-Search by department-10 marks

(or)

Develop a Java application that simulates a basic to-do list manager with the following features:

1. Graphical User Interface (Swing):

- Design a simple interface with:
 - A text field to add new tasks.
 - A list or table to display existing tasks.
 - Buttons for marking tasks as completed, deleting tasks, and clearing the entire list.

2. Database Connectivity (JDBC):

- Connect to a database (choice of database is flexible).
- Create a table named "tasks" with columns for task description, completion status
- Implement methods to:
 - Add new tasks to the database.
 - Retrieve all tasks from the database and populate the list/table.
 - Update task completion status upon user action.
 - Delete tasks as selected by the user.
 - Clear all tasks from the database.

- Implement a search functionality to allow users to find tasks based on keywords

Rubrics

R1- Form Design – 10 marks, R2- CRUD -20 marks, R3-Search – 5 marks, R4- Displaying in table-5 marks