



NAME OF THE SCHOOL
CONTINUOUS ASSESSMENT TEST - II
FALL SEMESTER 2024-2025

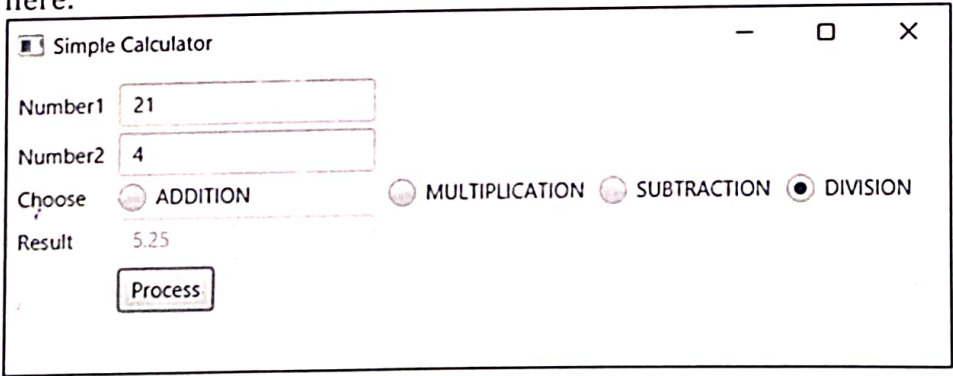
Programme Name & Branch : MCA
Course Code and Course Name : PMCA502L & Java Programming
Faculty Name(s) : Dr. Senthil Murugan B, Dr. Thilagavathi M, Dr. Vijayarani
Class Number(s) : VL2024250103191, VL2024250103131, VL2024250103233
Date of Examination : 14-Oct-24
Exam Duration : 90 minutes
Maximum Marks: 50

General instruction(s):

- Answer All Questions
- M - Max mark; CO – Course Outcome; BL – Blooms Taxonomy Level (1 – Remember, 2 – Understand, 3 – Apply, 4 – Analyse, 5 – Evaluate, 6 – Create)
- Course Outcomes

CO4 - Design and Develop GUI applications that involve database for real world problems using JavaFX and JDBC.

CO5 - Design, develop and deploy web applications using servlets and java server pages.

Q. No	Question	M	CO	BL
1.	ABC Hospital is a leading super specialty hospital in the city. They have various departments such as ENT, Cardiology etc. In every department doctors are available for OP consultation. Patients need to take appointment for consulting any doctor. While visiting for the first time the patient's details will be recorded and an OP ID will be provided. For taking an appointment patient needs to provide OP ID to the clerk. Design the suitable application architecture for ABC hospital system automation. Enumerate the system features and briefly explain the technology, software tool kit used for each application layers.	10	4	4
2.	<p>Write a JavaFX application to implement the simple calculator as shown here:</p>  <p>The user may feed in the input values through respective fields and select the required arithmetic process option. On clicking "Process", the result should be displayed in non-editable 'Result' text field.</p>	10	3	3



VIT

Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

REG.NO.:

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SLOT: B2 + TB2

3.	Assume that the database contains a table to represent inventory details like id, name, quantity, price and seller id. Write a simple console based Java program to get "seller id" from user and increase the price by 10% of the given seller. Finally, display the number of products purchased from seller.	10	3	3																
4.	<div>Consider that the HR database contains a table called "Employee" with the following fields: employee ID, name, department, and salary. Design HTML page consisting of controls to select the department name through drop down list and submit button named "List Employees". On submission to JSP, display the employees of the given department in HTML table format.</div> <div><div><div>Display Employee Details</div><div>Department Name: Academic</div><div>LIST EMPLOYEES</div></div><div>Academic HR IT Marketing Sales</div></div> <div><div>Employees List</div><table><thead><tr><th>Id</th><th>Name</th><th>Salary</th><th>Department</th></tr></thead><tbody><tr><td>3</td><td>Babu</td><td>34000</td><td>Academic</td></tr><tr><td>12</td><td>Anitha</td><td>27000</td><td>Academic</td></tr><tr><td>23</td><td>VIT University</td><td>25000</td><td>Academic</td></tr></tbody></table></div>	Id	Name	Salary	Department	3	Babu	34000	Academic	12	Anitha	27000	Academic	23	VIT University	25000	Academic	10	4	3
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5.	<div>Write a Servlet with HTML program to display the count of visited users and new users of a web page using sessions. Let the users choose the option as shown below:</div> <div><div><div>User Details</div><div>Are You : <input checked="" type="radio"/> First Time Visits the page <input type="radio"/> Already Visited</div><div>VISITORS COUNT</div><div>Number of First Time Users: 5 Number of Visited Users: 3</div></div><div>The counts should be updated after clicking the button "VISITORS COUNT".</div></div>	10	4	3																
