

Semester &amp; Division: IV [A &amp; B]

Date: 14/06/2024

Course Code &amp; Title: 22UCSC401 &amp; Object-Oriented Programming

Time: 09:30 - 10:30 AM

Max. Marks: 20

Course Instructors: Prof. Indira Umarji. &amp; Govind Negalur

Note: Answer any one question from Q.No.1 &amp; Q.No.2; Q.No.3 is COMPULSORY.

Q.No.1.

- a) Write a Java program that provides the following implementations: [3+2=5M, CO6]
- HTML file: displays a text box to read a line of text and provides a submit button
  - Java Servlet: provides features to handle the request (from HTML file), processes the request and sends the number of vowels and consonants present in the line of text in HTML format
- b) Briefly explain the types of lambda expressions with the help of illustrative examples for each. [5M, CO8]

Q.No.2.

- a) Write a JSP program that implements a simple calculator. The program must provide the features to perform addition, subtraction, multiplication and division of two numbers based on user's choice. [5M, CO6]
- b) With illustrative code snippet, explain the life cycle methods of JavaFX. [5M, CO7]

Q.No.3.

- a) Write a Java program to implement the following scenario: [5M, CO4,5]

Consider the following table available in the MySQL instance of BookDB:

BookInfo	
ISBN	int
Title	varchar(40)
Author	varchar(40)
Publisher	varchar(30)
Price	real

Write a Java program that displays contents of the above-mentioned table on the console.

- b) Write a JavaFX application that gives the following output when executed: [5M, CO7]

