



Shree Chanakya Education Society's  
**Indira College of Commerce & Science, Pune**

TYBBA(CA) Semester – V (CBCS 2019 Pattern)

University Practical Examination

Lab Course: (CA-506) Computer Laboratory Based on 503 and 504

Core Java and Python

Time: - 3 Hours

Marks: - 100

<b>Q1.</b>	Write a java program to accept the two numbers from user using command line and print the addition and subtraction using function. <b>[Marks 15]</b>
<b>Q2.</b>	Write a java program to accept the two numbers from user using reader class and print the following options to the end user i. Display the max of two numbers ii. Display the min of two numbers Accept the choice from user and print the output according to the user's choice. <b>[Marks 25]</b>
<b>Q3.</b>	Write a Python program to accept n numbers in list and remove duplicates from a list. <b>[Marks 15]</b>
<b>Q4.</b>	Write Python GUI program to accept a decimal number and convert and display it to binary, octal and hexadecimal number. <b>[Marks 25]</b>
<b>Q5.</b>	Journal <b>[Marks 10]</b>
<b>Q6.</b>	Viva <b>[Marks 10]</b>



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**Core Java and Python**

**Time: - 3 Hours**

**Marks: - 100**

<b>Q1.</b>	Write a java program to accept the two numbers from user using reader class and display that two numbers as it is on the cmd prompt and also display the swapping of that two numbers on the cmd prompt using third variable.  <b>[Marks 15]</b>
<b>Q2.</b>	Write a c program to accept the side of the square from user and print the following options to the end user i. Display the area of the square ii. Display the perimeter of the square Accept the choice from user and print the output according to the user's choice.  <b>[Marks 25]</b>
<b>Q3.</b>	Write a Python program to check if a given key already exists in a dictionary. If key exists replace with another key/value pair.  <b>[Marks 15]</b>
<b>Q4.</b>	Write a program to implement the concept of stack using list.  <b>[Marks 25]</b>
<b>Q5.</b>	Journal  <b>[Marks 10]</b>
<b>Q6.</b>	Viva  <b>[Marks 10]</b>



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Core Java and Python

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Marks: - 100

<b>Q1.</b>	Write a java program to accept the two number using constructor from user and display the division of that two number and handle all possible exceptions.  <b>[Marks 15]</b>
<b>Q2.</b>	Write a java program to accept the length and breadth of the rectangle from user and print the following options to the end user i. Display the area of the rectangle ii. Display the perimeter of the rectangle Accept the choice from user and print the output according to the user's choice.  <b>[Marks 25]</b>
<b>Q3.</b>	Write a Python program to compute element-wise sum of given tuples. <b>Original Tuples :</b> (1, 2, 3, 4) (3, 5, 2, 1) (2, 2, 3, 1)  <b>Element-wise sum of the said tuples:</b> (6, 9, 8, 6)  <b>[Marks 15]</b>
<b>Q4.</b>	Write a Python script to Create a Class that Performs Basic Calculator Operations.  <b>[Marks 25]</b>
<b>Q5.</b>	Journal  <b>[Marks 10]</b>
<b>Q6.</b>	Viva  <b>[Marks 10]</b>



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<b>Q1.</b>	Write a java program to accept any number from user and print the multiplication table of that number on the cmd prompt. <b>[Marks 15]</b>
<b>Q2.</b>	Write a java program to accept the start and end number from user and print the following options to the end user i. Display all the numbers from start to end ii. Display all the numbers from end to start Accept the choice from user and display the output according to the user's choice. <b>[Marks 25]</b>
<b>Q3.</b>	Write a Python program to input a positive integer. Display correct message for correct and incorrect input. (Use Exception Handling) <b>[Marks 15]</b>
<b>Q4.</b>	Write a python program to count repeated characters in a string. <b>Sample string:</b> 'thequickbrownfoxjumpsoverthelazydog' <b>Expected output:</b> o-4, e-3, u-2, h-2, r-2, t-2 <b>[Marks 25]</b>
<b>Q5.</b>	Journal <b>[Marks 10]</b>
<b>Q6.</b>	Viva <b>[Marks 10]</b>



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Time: - 3 Hours

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<b>Q1.</b>	Write a java program to accept the number of lines from user and print the following pattern on the cmd prompt. 1 22 333 4444 55555  <b>[Marks 15]</b>
<b>Q2.</b>	Write a java program to accept the start and end number from user and print the following options to the end user i. Display all even numbers ii. Display all odd numbers iii. Display all even and odd numbers Accept the choice from user and print the output according to the user's choice.  <b>[Marks 25]</b>
<b>Q3.</b>	Write a python program to create a class Circle and Compute the Area and the circumferences of the circle. (use parameterized constructor)  <b>[Marks 15]</b>
<b>Q4.</b>	Write a Python program to convert a tuple of string values to a tuple of integer values. <b>Original tuple values:</b> (('333', '33'), ('1416', '55'))  <b>New tuple values:</b> ((333, 33), (1416, 55))  <b>[Marks 25]</b>
<b>Q5.</b>	Journal  <b>[Marks 10]</b>
<b>Q6.</b>	Viva  <b>[Marks 10]</b>



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**Time: - 3 Hours**

**Marks: - 100**

<b>Q1.</b>	Write a java program to accept the number of lines from user and print the following pattern on the cmd prompt A BB CCC DDDD EEEE  <div style="text-align: right;"><b>[Marks 15]</b></div>
<b>Q2.</b>	Write a java program to accept the start and end number from user and print the following options to the end user i. Display all positive numbers ii. Display all Negative numbers iii. Display all Positive and Negative numbers Accept the choice from user and print the output according to the user's choice.  <div style="text-align: right;"><b>[Marks 25]</b></div>
<b>Q3.</b>	Write an anonymous function to find area of square and rectangle.  <div style="text-align: right;"><b>[Marks 15]</b></div>
<b>Q4.</b>	Write Python GUI program which accepts a sentence from the user and alters it when a button is pressed. Every space should be replaced by *, case of all alphabets should be reversed, digits are replaced by @ symbol.  <div style="text-align: right;"><b>[Marks 25]</b></div>
<b>Q5.</b>	Journal  <div style="text-align: right;"><b>[Marks 10]</b></div>
<b>Q6.</b>	Viva  <div style="text-align: right;"><b>[Marks 10]</b></div>



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<b>Q1.</b>	Write a Java program to declare one number in base class and one number in derived class. Accept the two numbers from user and display the addition of that two numbers on the cmd prompt. <b>[Marks 15]</b>
<b>Q2.</b>	Write a java program to accept the start and end number from user and print the following options to the end user i. Display the sum of all the numbers from start to end ii. Display the sum of only even numbers iii. Display the sum of only odd numbers Accept the choice from user and print the output according to the user's choice. <b>[Marks 25]</b>
<b>Q3.</b>	Write an anonymous function to find area of square and rectangle. <b>[Marks 15]</b>
<b>Q4.</b>	Write a Python script to sort (ascending and descending) a dictionary by key and value. <b>[Marks 25]</b>
<b>Q5.</b>	Journal <b>[Marks 10]</b>
<b>Q6.</b>	Viva <b>[Marks 10]</b>



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<b>Q1.</b>	Write a java program to accept the book id in base class class and book name and book price in derived class. Write down the accept and display method for two classes separately and display the book details on the cmd prompt.  <div style="text-align: right;"><b>[Marks 15]</b></div>
<b>Q2.</b>	Write a java program to accept the size of an array from user and accept the one dimensional array from user and print the following options to the end user i. Display all array elements ii. Display all even numbers from that array iii. Display all odd numbers from that array Accept the choice from user and print the output according to the user's choice.  <div style="text-align: right;"><b>[Marks 25]</b></div>
<b>Q3.</b>	Write a Python GUI program to create a list of Computer Science Courses using Tkinter module (use Listbox).  <div style="text-align: right;"><b>[Marks 15]</b></div>
<b>Q4.</b>	Write a Python Program to Check if given number is prime or not. Also find factorial of that given number using user defined function. (Do necessary validations)  <div style="text-align: right;"><b>[Marks 25]</b></div>
<b>Q5.</b>	Journal  <div style="text-align: right;"><b>[Marks 10]</b></div>
<b>Q6.</b>	Viva  <div style="text-align: right;"><b>[Marks 10]</b></div>





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<b>Q1.</b>	Write a java program to create an interface abc with three method accept (), calculate () and display. Then implement one new class from an interface and accept the two numbers from user and print the addition of that two numbers on the cmd prompt.  <b>[Marks 15]</b>
<b>Q2.</b>	Write a java program to accept the one dimensional array from user and print the following options to the end user i. Display the sum of all numbers ii. Display the sum of all even numbers iii. Display the sum of all odd numbers Accept the choice from user and print the output according to the user's choice.  <b>[Marks 25]</b>
<b>Q3.</b>	Write a python script to find the repeated items of a tuple. <b>Sample Tuple :</b> (6,-2,1,9,2,8,-2,9,-4,1,8,-2)  <b>Expected Output :</b> Repeated items : -2, 1, 9, 8  <b>[Marks 15]</b>
<b>Q4.</b>	Write Python GUI program to accept a number n and check whether it is Prime, Perfect or Armstrong number or not. Specify three radio buttons.  <b>[Marks 25]</b>
<b>Q5.</b>	Journal  <b>[Marks 10]</b>
<b>Q6.</b>	Viva  <b>[Marks 10]</b>



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<b>Q1.</b>	Write a java program to create one interface vehicle with one method getWheel(). Create the class from vehicle interface and return the number of wheels for two wheeler and auto and car. Display the result in the main function.  <div style="text-align: right;"><b>[Marks 15]</b></div>
<b>Q2.</b>	Write a java program to accept the single dimensional array from user and print the following options to the end user. i. Display the max value from an array ii. Display the min value from an array iii. Display the reverse of that array Accept the choice from user and print the output according to the user's choice.  <div style="text-align: right;"><b>[Marks 25]</b></div>
<b>Q3.</b>	Write Python GUI program to display an alert message when a button is pressed.  <div style="text-align: right;"><b>[Marks 15]</b></div>
<b>Q4.</b>	Write a program to implement the concept of queue using list.  <div style="text-align: right;"><b>[Marks 25]</b></div>
<b>Q5.</b>	Journal  <div style="text-align: right;"><b>[Marks 10]</b></div>
<b>Q6.</b>	Viva  <div style="text-align: right;"><b>[Marks 10]</b></div>



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<b>Q1.</b>	Write a java program to accept an age from user and if the age is less than 18 then throw the user defined exception "The candidate is not eligible for voting" and if the age is greater than 18 then display the eligible message on the cmd prompt.  <b>[Marks 15]</b>
<b>Q2.</b>	Write a Java program to accept the number of row and col from user and up to that row line and col line, accept the two dimensional array from user and display the following options to the end user i. Display two d array ii. Display all even elements from that two d array iii. Display all odd elements from that two d array Accept the choice from user and print the output according to the user's choice.  <b>[Marks 25]</b>
<b>Q3.</b>	Write a Python class named Student with two attributes student_name, marks. Modify the attribute values of the said class and print the original and modified values of the said attributes.  <b>[Marks 15]</b>
<b>Q4.</b>	Write python GUI program to generate a random password with upper and lower case letters.  <b>[Marks 25]</b>
<b>Q5.</b>	Journal  <b>[Marks 10]</b>
<b>Q6.</b>	Viva  <b>[Marks 10]</b>



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<b>Q1.</b>	Write a java program to accept the date and month from user and if the date and month is not valid then throws the user defined exception and display the message accordingly.  <b>[Marks 15]</b>
<b>Q2.</b>	Write a java program to accept the two dimensional array from user and print the following options to the end user i. Display the transpose of the matrix ii. Display the count of all even and odd numbers iii. Display the count of all positive and negative numbers Accept the choice from user and print the output according to the user's choice.  <b>[Marks 25]</b>
<b>Q3.</b>	Write a Python script to generate and print a dictionary which contains a number (between 1 and N) in the form(x, x*x). <b>Sample Input:</b> Enter value of N (Assume that value of N = 5)  <b>Expected Output:</b> {1:1, 2:4, 3:9, 4:16, 5:25}  <b>[Marks 15]</b>
<b>Q4.</b>	Write a Python GUI program to create a label and change the label font style (font name, bold, size) using tkinter module.  <b>[Marks 25]</b>
<b>Q5.</b>	Journal  <b>[Marks 10]</b>
<b>Q6.</b>	Viva  <b>[Marks 10]</b>



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<b>Q1.</b>	Write a java program to accept the single number from user and if the number is zero then throw the user defined exception "This number is zero" and if the number is not zero then display the addition of first and last digit of that number.  <b>[Marks 15]</b>
<b>Q2.</b>	Write a Java program to accept the two dimensional array from user and print the following options to the end user i. Display all diagonal elements ii. Display all non-diagonal elements iii. Display diagonal and non-diagonal elements Accept the choice from user and print the output according to the user's choice.  <b>[Marks 25]</b>
<b>Q3.</b>	Write a Python function that accepts a string and calculate the number of upper case letters and lower case letters. <b>Sample String:</b> 'The quick Brown Fox'  <b>Expected Output:</b> No. of Upper case characters: 3 No. of Lower case characters: 13  <b>[Marks 15]</b>
<b>Q4.</b>	Write Python GUI program which accepts a number n to displays each digit of number in words.  <b>[Marks 25]</b>
<b>Q5.</b>	Journal  <b>[Marks 10]</b>
<b>Q6.</b>	Viva  <b>[Marks 10]</b>



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<b>Q1.</b>	Write a Java program to accept the two strings from user and check whether that two strings are same or not same. Display the message on the command prompt.  <div style="text-align: right;"><b>[Marks 15]</b></div>
<b>Q2.</b>	Write a Java program to accept the single number of any digit from user and print the following options to the end user i. Display the reverse of that number ii. Check whether the number is palindrome or not iii. Check whether the number is Armstrong or not Accept the choice from user and print the output according to the user's choice.  <div style="text-align: right;"><b>[Marks 25]</b></div>
<b>Q3.</b>	Write a Python script using class, which has two methods getString() and printString(). getString() accept a string from the user and printString() prints the string in upper case.  <div style="text-align: right;"><b>[Marks 15]</b></div>
<b>Q4.</b>	Write Python GUI program to add items in listbox widget and to print and delete the selected items from listbox on button click. Provide three separate buttons to add, print and delete.  <div style="text-align: right;"><b>[Marks 25]</b></div>
<b>Q5.</b>	Journal  <div style="text-align: right;"><b>[Marks 10]</b></div>
<b>Q6.</b>	Viva  <div style="text-align: right;"><b>[Marks 10]</b></div>



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<b>Q1.</b>	Write a Java program to create the package that accept the three numbers from main function and display the max value from that three numbers in the package only.  <b>[Marks 15]</b>
<b>Q2.</b>	Write a Java program to accept the file name from user and display the content of that file on the cmd prompt.  <b>[Marks 25]</b>
<b>Q3.</b>	Create a list <b>myList = [1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89]</b> and write a python program that prints out all the elements of the list that are less than 5.  <b>[Marks 15]</b>
<b>Q4.</b>	Write a python script to create a class Rectangle with data members length, width and methods area(), perimeter() which can compute the area and perimeter of rectangle respectively.  <b>[Marks 25]</b>
<b>Q5.</b>	Journal  <b>[Marks 10]</b>
<b>Q6.</b>	Viva  <b>[Marks 10]</b>



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<b>Q1.</b>	Write a Java program to accept the single number from user and print that number in terms of words (123-one two three).  <div style="text-align: right;"><b>[Marks 15]</b></div>
<b>Q2.</b>	Write a Java program to accept the file name from user and print the following options to the end user i.      Display all upper case letters ii.     Display all lower case letters Accept the choice from user and print the output according to the user's choice.  <div style="text-align: right;"><b>[Marks 25]</b></div>
<b>Q3.</b>	Write Python GUI program that takes input string and change letter to upper case when a button is pressed.  <div style="text-align: right;"><b>[Marks 15]</b></div>
<b>Q4.</b>	Write a python script to implement bubble sort using list.  <div style="text-align: right;"><b>[Marks 25]</b></div>
<b>Q5.</b>	Journal  <div style="text-align: right;"><b>[Marks 10]</b></div>
<b>Q6.</b>	Viva  <div style="text-align: right;"><b>[Marks 10]</b></div>





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<b>Q1.</b>	Design a screen in Java to handle the Mouse Events such as MOUSE_MOVED and MOUSE_CLICK and display the position of the Mouse Click in a Text Field.  <b>[Marks 15]</b>
<b>Q2.</b>	Write a java program to design a following GUI (Use Swing).  <div><p style="text-align: center;"><b><u>Personal Information</u></b></p><p>First Name : <input type="text"/></p><p>Last Name : <input type="text"/></p><p>Address : <input type="text"/></p><p>Mobile Number : <input type="text"/></p><p>Gender <input type="radio"/> Male <input type="radio"/> Female</p><p>Your Interests <input type="checkbox"/> Computer <input type="checkbox"/> Sports <input type="checkbox"/> Music</p><p style="text-align: center;"><input type="button" value="Submit"/> <input type="button" value="Reset"/></p></div> <b>[Marks 25]</b>
<b>Q3.</b>	Write Python GUI program that takes input string and change letter to upper case when a button is pressed.  <b>[Marks 15]</b>
<b>Q4.</b>	Define a class named Shape and its subclass(Square/ Circle). The subclass constructor takes an argument (Length/Radius). Both classes should have methods to calculate area and volume of a given shape. ( <b>Hint :</b> use Hierarchical Inheritance concept)  <b>[Marks 25]</b>
<b>Q5.</b>	Journal  <b>[Marks 10]</b>
<b>Q6.</b>	Viva  <b>[Marks 10]</b>



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<b>Q1.</b>	Write a java program to accept list of file names through command line and delete the files having extension “.txt”. Display the details of remaining files such as File Name and size.  <b>[Marks 15]</b>
<b>Q2.</b>	Write a Java program to design a screen using Swing that will take a user name and password. If the user name and password are not same, raise an Exception with appropriate message. User can have 3 login chances only. Use clear button to clear the Text Fields.  <b>[Marks 25]</b>
<b>Q3.</b>	Write a python program to accept string and remove the characters which have odd index values of given string using user defined function.  <b>[Marks 15]</b>
<b>Q4.</b>	Write a Python GUI program to accept a string and a character from user and count the occurrences of that character in a given string. Print the total occurrences on a label widget.  <b>[Marks 25]</b>
<b>Q5.</b>	Journal  <b>[Marks 10]</b>
<b>Q6.</b>	Viva  <b>[Marks 10]</b>



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<b>Q1.</b>	Write a package for Games in Java, which have two classes Indoor and Outdoor. Use a function display () to generate the list of players for the specific games. (Use Parameterized constructor, finalize () method and Array of Objects).  <b>[Marks 15]</b>
<b>Q2.</b>	Write a Java Program to accept the details of Employee (Eno, EName, Sal) from the user and display it on the next Frame. (Use AWT).  <b>[Marks 25]</b>
<b>Q3.</b>	Write a Python program to create Entry widgets for entering user name and password and display the entered text.  <b>[Marks 15]</b>
<b>Q4.</b>	Write a Python program to create a list of tuples with the first element as the number and second element as the square of the number. <b>Sample Input :</b> Enter Value of N Assume the value of N = 4  <b>Expected Output:</b> [(1,1),(2,4),(3,9),(4,16)]  <b>[Marks 25]</b>
<b>Q5.</b>	Journal  <b>[Marks 10]</b>
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Marks: - 100

<b>Q1.</b>	Write a java program to read the characters from a file, if a character is alphabet then reverse its case, if not then display its category on the Screen. (whether it is Digit or Space). <b>[Marks 15]</b>										
<b>Q2.</b>	Write a java program to design the following frame and display the output accordingly in the text boxes. <b>[Marks 25]</b> <table><tr><td>Enter any String</td><td>Textbox 1 ( ICCS)</td></tr><tr><td>Upper Case ( Button)</td><td>ICCS</td></tr><tr><td>Lower Case (Button)</td><td>iccs</td></tr><tr><td>Bold ( Button)</td><td><b>ICCS</b></td></tr><tr><td>Italic</td><td><i>ICCS</i></td></tr></table>	Enter any String	Textbox 1 ( ICCS)	Upper Case ( Button)	ICCS	Lower Case (Button)	iccs	Bold ( Button)	<b>ICCS</b>	Italic	<i>ICCS</i>
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Italic	<i>ICCS</i>										
<b>Q3.</b>	Write a Python program to unzip a list of tuples into individual lists. <b>[Marks 15]</b>										
<b>Q4.</b>	Design two base classes Personal (Name, Address, Email-id, Birthdate) and Academic (Percentage_in_tenth, Percentage_in_HSC). Derive a class Biodata from both these classes. Write a Python program to prepare a biodata of a student having Personal and Academic information. <b>[Marks 25]</b>										
<b>Q5.</b>	Journal <b>[Marks 10]</b>										
<b>Q6.</b>	Viva <b>[Marks 10]</b>										