PRAHLADRAI DALMIA LIONS COLLEGE OF COMMERCE & ECONOMICS

ISO 9001 : 2015 Certified

Date : 19th Sept, 2022

NOTICE

B. Sc. (INFORMATION TECHNOLOGY)

ATKT Internal / Practical Examination Semester (II & IV) September, 2022

INSTRUCTIONS

1. Submission of the Journal / Assignment, Date & Time of Viva Voce- **30th September, 2022 at 9.30 AM in Computer Lab.**
2. Submission of Journal or assignments to be done on proper A4 size paper or Full scape paper, **handwritten only**. Every page should contain details of Roll no, Name of the student, Semester, Subject.
3. **Viva Voce is compulsory** to attend by students or else the project submission will be invalid. If the student fails to submit the project on the given date and time, he/ she will be marked ABSENT for the said subject.
4. **Any Submissions after the above-mentioned date and time will not be accepted and entertained under any circumstance.**
5. List of students with the project topics is attached herewith.

Prof.Rupali Mishra	Prof. Durgesh Kenkre	Prof. Subhashini Naikar	Dr. Kiran Mane
(Coordinator)	(Exam convener)	(Vice- Principal, SFC)	(I/c Principal)

DI/R-IPS/EXAM/00

Semester II

Subject :Web Programming (Practical)

Note : Write the answer with Aim, Code, and Output screenshot.

Roll No	Name and Questions
109	**CHETTIYAR AMBIKA RAVI** 1. Using JavaScript design, a web page that prints factorial/Fibonacci series/any given series. 2. Write a PHP code to find the greater of 2 numbers. Accept the no. from the user.
130	**PAL PANKAJ RAMCHANDRA** 1. Write a PHP Program to accept a number from the user and print it factorial. 2. Write a PHP program to accept a number from the user and print whether it is prime or not.
132	**PAL MANDEEP TIRTHRAJ** 1. Design a web page using different text formatting tags. 2. Design a web page with Imagemaps.
134	**PITALE AVADHUT SADANAND** 1. Design a form and validate all the controls placed on the form using Java Script. 2. Write a JavaScript program to accept a number from the user and display the sum of its digits.
135	**PRAJAPTI YOGITA HARISHANKAR** 1. Write a PHP code to find the greater of 2 numbers. Accept the no. from the user. 2. Using JavaScript design, a web page that prints factorial/Fibonacci series/any given series.
153	**TIWARI VIKRANT SHIVPUJAN** 1. Design a web page demonstrating different conditional statements. 2. Design a web page demonstrating different control statements.
154	**SAHANI RAKESH RAMLAVAT** 1. Write a PHP program to accept a number from the user and print whether it is prime or not.. 2. Design a web page demonstrating different conditional statements.
171	**SINGH NILESH SHESHNATH** 1. Write a PHP program to accept a number from the user and print whether it is prime or not. 2. Write a PHP Program to accept a number from the user and print it factorial.
163	**YADAV ROHIT KRISHNA** 1. Using JavaScript design, a web page that prints factorial/Fibonacci series/any given series. 2. Write a PHP program to accept a number from the user and print whether it is prime or not..

Subject :Web Programming (Internal)

Roll No	

132	**PAL MANDEEP TIRTHRAJ** 1. Write the difference between GET and POST methods in PHP. 2. Explain different types of arrays available in PHP. 3. Write a PHP program to demonstrate the use of different string functions. 4. Explain error handling in PHP.
153	**TIWARI VIKRANT SHIVPUJAN** 1. What is a cookie? How to store and retrieve the values in a cookie in PHP? 2. Explain any five PHP/MYSQL functions with examples. 3. Write a PHP program to send email with attachment. 4. How to start and destroy a session and how to store a session variable in PHP? Explain.
163	**YADAV ROHIT KRISHNA** 1. List and explain important applications of the internet in brief. 2. Explain different approaches to style sheets. 3. Write a short note on the internet address. 4. How are hyperlinks created in HTML? Explain with the help of an example.

Subject :Microprocessor Architecture (Internal)

Roll No	
102	NAIK ANURAG ANIL 1. Explain Tristate device logic and Buffer. 2. Write a short note on classification of memory. 3. Draw a neat label functional block diagram of 8085 microprocessor and explain the flags of the flag register. 4. Explain the timing diagram of the Memory Read Cycle.
107	GUPTA ROHIT RAJESH 1. Explain the working of the OUT instruction in 8085 microprocessor. 2. Explain the memory mapped I/O with STA 8000H stored at memory address 2050H. 3. List and explain the various data transfer instruction. 4. What is a instruction, instruction word size? Write types of instruction based on size?
132	PAL MANDEEP TIRTHRAJ 1. Draw and explain a flowchart for a zero to nine counter. 2. What is a stack? What are the two operations on the stack? Explain with example. 3. Explain the execution of a CALL instruction for 8085 microprocessor and its effect on the stack pointer and program counter. 4. Explain the various Rotate Instruction for 8085 microprocessor
150	JENCY ANTHONY SWAMY 1. Write an assembly program for 8085 microprocessor to convert 72 BCD to its binary equivalent. 2. What is the function performed by a debugger? 3. Explain the steps of 8085 microprocessor interrupt process. 4. Write a short note on 8085 microprocessor vectored interrupts.
153	TIWARI VIKRANT SHIVPUJAN 1. Explain the internal structure of the Pentium Pro Processor. 2. List any five Pentium instructions and explain the function of any two. 3. Explain the CPUID instruction in Pentium II.

	4. Compare Core i3, i5 and i7 processors.
163	YADAV ROHIT KRISHNA 1. Explain the CPUID instruction in Pentium II. 2. Compare Core i3, i5 and i7 processors. 3. What are the features of the SPARC Architecture? 4. What are the various data formats in the SPARC Architecture?

Subject :Microprocessor Architecture (Practical)

Roll No	
132	PAL MANDEEP TIRTHRAJ 1. Store the data byte 32H into memory location 4000H. 2. Exchange the contents of memory locations 2000H and 4000H
153	TIWARI VIKRANT SHIVPUJAN 1. Subtract two 8-bit numbers 2. Add two 16-bit numbers
163	YADAV ROHIT KRISHNA 1. Program to shift a 16-bit data 1 bit left. Assume data is in the HL register pair 2. Calculate the sum of series of numbers. The length of the series is in memory location 4200H and the series begins from memory location 4201H.

Subject :Object Oriened Programming (Internal)

Roll No	
132	PAL MANDEEP TIRTHRAJ 1 Explain the characteristics of Procedural Oriented Programming. 2 Write short note on Object Oriented Programming. 3 What are the benefits of Object Oriented Programming? 4 Write a program in C++ to accept a number from the user and print its multiplication table.
143	SHARMA CHIRAG SUNIL 1 Explain the characteristics of Object Oriented Programming. 2 What are the limitations of Procedure Oriented Programming? 3 What are the applications of Object Oriented Programming? 4 Write a program in C++ to accept a number from the user and calculate its factorial.
153	TIWARI VIKRANT SHIVPUJAN 1 What are the applications of Object Oriented Programming? 2 Write a program in C++ to accept a number from the user and calculate its factorial. 3 Distinguish between procedure Oriented Programming and Object Oriented Programming. 4 Explain the concepts- Object, Inheritance and Polymorphism.
154	SAHANI RAKESH RAMLAVAT 1. What are the characteristics of Procedure Oriented Programming? Explain 2. What is friend function? Write a friend function to display “Hello World” message on the screen 3. Write a short note on operator overloading 4. Define the term generic programming. Give its advantages
163	YADAV ROHIT KRISHNA 1. What are the advantages of Object Oriented Programming? Explain 2. What are the main characteristics of constructor? Explain 3. What are the rules for writing virtual function? Explain 4. Explain with example single inheritance in c++.

Subject :Object Oriented Programming (Practical)

Roll No	
124	MISHRA YASH SHIVPRASAD 1) Write a program to arrange 10 numbers in ascending and descending order 2) Write a program to perform the Matrix addition, Multiplication and Transpose Operation.
125	PATEL MOHAMMED SAFWAN FAZAL AHAMED 1) Write a program to find the factorial of a number. 2) Write a program program to search a number in a given array.
132	PAL MANDEEP TIRTHRAJ 1. Write a program to demonstrate function definition outside class and accessing class members in function definition. 2. Write a friend function for adding the two different distances and display its sum, using two classes.
135	PRAJAPTI YOGITA HARISHANKAR 1. Write a friend function for adding the two matrix from two different classes and display its sum 2. Design a class Complex for adding the two complex numbers and also show the use of constructor
152	TIWARI SHREERAM SANJAY 1. Design a class Geometry containing the methods area() and volume() and also overload the area() function 2. Overload the operator unary(-) for demonstrating operator overloading
153	TIWARI VIKRANT SHIVPUJAN 1. Design an employee class for reading and displaying the employee information, the getInfo() and displayInfo() methods will be used repectively. Where getInfo() will be private method 2. Write a friend function for adding the two complex numbers, using a single class
163	YADAV ROHIT KRISHNA 1. Design a class Geometry containing the methods area() and volume() and also overload the area() function 2. Overload the + for concatenating the two strings.

Subject :Green Computing (Internal)

Roll No	
132	PAL MANDEEP TIRTHRAJ 1. Explain the features and hardware specification of Excito. 2. How you can minimize excessive power output from wireless devices 3. Write a note on cooling optimization by data center design. 4. What is Microsoft office SharePoint Server 2007.
153	TIWARI VIKRANT SHIVPUJAN 1. List and explain the various toxins present in computer systems. 2. Discuss cost saving in power consumption by desktop and data centers. 3. Write a short note on Basel Action Network 4. List the tips to keep water usage under control.

163	YADAV ROHIT KRISHNA 1. What is carbon foot print? Explain the ways to compute carbon footprint. 2. Write a note on StEP. 3. Explain the ways of reducing power consumption in storage. 4. Write a short note on intranet

Subject :Green Computing (Practical)

Roll No	
111	DWIVEDI RAVI MAHAVIR 1) Create a word document on the topic “Survey on Green IT through Google form” 2) Write a detailed report on going paperless.
132	PAL MANDEEP TIRTHRAJ 1) Make a word document on different ways of recycling. 2) Write a detailed report on Electronic waste in India
153	TIWARI VIKRANT SHIVPUJAN 1) Create a word document on the topic “Minimizing power usages” 2) Write a detailed report on “Changing the way of work” with green in mind.
154	SAHANI RAKESH RAMLAVAT 1) Create a word document on the topic “Global Initiatives and Standards” 2) Write a detailed report on “Changing the way of work” with green in mind.
163	YADAV ROHIT KRISHNA 1. Write a detailed report on going paperless. 2. Make a word document on different ways of recycling.

Subject : Numerical Statistical Methods (Practical)
Note : Write the answer with Aim, Code, and Output screenshot.

Roll no 109	**CHETTIYAR AMBIKA RAVI**
Q1. Write a Scilab program to solve algebraic and transcendental equation by bisection method. Q2. Write a Scilab program for Newton’s forward interpolation. Q3. Write a Scilab program for solving linear system of equations using Gauss Jordan method.	
Roll no 113	**GUPTA SHUBHAM SATENDRA**
Q1. Write a Scilab program to solve algebraic and transcendental equation by false position method. Q2. Write a Scilab program for numerical integration using Simpson’s 1/3rd rule. Q3. Write a Scilab program to solve differential equation using Euler’s method	
Roll no 127	**NAIK MANALI JITENDRA**

Q1. Write a Scilab program to solve algebraic and transcendental equation by Secant method.
Q2. Write a Scilab program for Newton's backward interpolation.
Q3. Write a Scilab program for numerical integration using Simpson's 3/8th rule

Roll no 132	PAL MANDEEP TIRTHRAJ

Q1. Write a Scilab program for solving linear system of equations using Gauss Jordan method.
Q2. Write a Scilab program to solve differential equation using Runge-kutta 2nd order and 4th order methods.
Q3. Write a Scilab program to solve algebraic and transcendental equation by Secant method

Roll no 134	PITALE AVADHUT SADANAND

Q1. Write a Scilab program for Lagrange's interpolation.
Q2. Write a Scilab programing to obtain derivatives numerically
Q3. Write a Scilab program for iterative calculation.

Roll no 135	PRAJAPTI YOGITA HARISHANKAR

Q1. Write a Scilab program to solve algebraic and transcendental equation by bisection method.
Q2. Write a Scilab program for Newton's forward interpolation.
Q3. Write a Scilab program for solving linear system of equations using Gauss Jordan method.

Roll no 142	SHAIKH SOHAIL NASIM

Q1. Write a Scilab program to solve algebraic and transcendental equation by false position method.
Q2. Write a Scilab program for numerical integration using Simpson's 1/3rd rule.
Q3. Write a Scilab program to solve differential equation using Euler's method

Roll no 152	TIWARI SHREERAM SANJAY

Q1. Write a Scilab program for solving linear system of equations using Gauss Jordan method.
Q2. Write a Scilab program to solve differential equation using Runge-kutta 2nd order and 4th order methods.
Q3. Write a Scilab program to solve algebraic and transcendental equation by Secant method

Roll no 153	TIWARI VIKRANT SHIVPUJAN

Q1. Write a Scilab program for Lagrange's interpolation.
Q2. Write a Scilab programing to obtain derivatives numerically
Q3. Write a Scilab program for iterative calculation.

Roll no 154	TRIVEDI HEET ASHOK

Q1. Write a Scilab program to solve algebraic and transcendental equation by false position method.
Q2. Write a Scilab program for numerical integration using Simpson's 1/3rd rule.

Q3. Write a Scilab program to solve differential equation using Euler's method.	
Roll no 157	**VISHWAKARMA AMAR ALIYAR**
Q1. Write a Scilab program to solve algebraic and transcendental equation by Secant method. Q2. Write a Scilab program for Newton's backward interpolation. Q3. Write a Scilab program for numerical integration using Simpson's 3/8th rule	
Roll no 172	**GAMARE YASH UTTAM**
Q1. Write a Scilab program for solving linear system of equations using Gauss Jordan method. Q2. Write a Scilab program to solve differential equation using Runge-kutta 2nd order and 4th order methods. Q3. Write a Scilab program to solve algebraic and transcendental equation by Secant method	
Roll no 163	**YADAV ROHIT KRISHNA**
Q1. Write a Scilab program for Lagrange's interpolation. Q2. Write a Scilab programing to obtain derivatives numerically Q3. Write a Scilab program for iterative calculation.	

Subject : Numerical Statistical Methods (Internal)

Roll No 102

NAIK ANURAG ANIL

1. Compute $x = \frac{1}{3}$ Where *x* value is rounded upto 4 decimal places, find the absolute and relative errors in *x*. Consider Correct value of *x* upto 6 decimal places.
2. Find the error value of $\mathbf{e^{0.7}}$ of the Taylor series for the first five terms.
3. Obtain the root of $f(x) = xe^x = 1$ using the Bisection method.
4. **Solve Graphically**
   Max Z = 20*x* + 40*y*
   Subject to $5x + 8y \leq 40$
   $x \leq 4$
   $y \leq 3$
   $x, y \geq 0$
5. For random variable X, the number of heads appears when an unbiased coin is tossed thrice.
   Find the following.
   1. Probability mass function
   2. Expected value
   3. Variance

   If P(X=0)=0.125, P(X=2) = 0.375, P(X=3) = p

Roll No 111

DWIVEDI RAVI MAHAVIR

1. Use the Euler's method to Find y(0.2).
   Given : $\frac{dy}{dx} = 1 - y$, y(0) = 0 , h = 0.1
2. Evaluate $\int_0^6 \frac{1}{1+x}\,dx$ by Trapezoidal rule
3. Find the values of x, y and z using Gauss Jordan for following simultaneous equations:
   2x + 6y – z = -14
   5x - y + 2z = 29
   -3x – 4y + z = 4
4. Find the root correct up to 3 decimal places for $f(x) = e^x - 4x = 0$ using Regula - falsi method.
5. Find the missing term using following data of by Lagrange's interpolation

x	0	1	2	3	4
$f(x)$	1	3	9	-	81

Roll No 112

GUPTA SATYAM KUMAR MEWALAL

1. Estimate the sales in the year 1995 using Newton's backward Difference Interpolation using the following data.

X (year)	1961	1971	1981	1991	2001
Y (Sales)	46	66	81	93	101

2. Find the values of x, y and z using Gauss Seidel for following simultaneous equations

	$3x + 8y + 29z = 71$ $83x + 11y - 4z = 95$ $7x + 52y + 13z = 104$ 3. Fit a regression equation **y on x** using given data. | ***x*** | 15 | 17 | 19 | 22 | 25 | 26 | | ***y*** | 10 | 11 | 13 | 14 | 16 | 17 | 4. If X is a discrete Uniform Random variable, find the value of n if V(X) = 2E(X). 5. Let X be the discrete random variable with probability mass function as $P(x) = \frac{1}{5}$ for $x = 1,2,3,4,5$ $= 0$, otherwise Find Mean, Variance & Standard Deviation
Roll No 132	**PAL MANDEEP TIRTHRAJ** 1. An odometer wheel is used to measure the lengths of a rectangle. Side A is 425ft and side B is 105ft long. The error in side A is $\pm$ 0.5ft and side B is $\pm$ 0.15ft. What is the error in the area? 2. Solve the equation $x^3 + 2x^2 - 8 = 0$ using Bisection method 3. Find a root of an equation f(x)=√10 using the Regula Falsi method. 4. Find f(8) using newton's forward difference interpolation methods | x | 5 | 6 | 9 | | y | 12 | 13 | 14 | 5. Define the the conservation laws for with respect to following 1. Chemical Engineering 2. Mechanical Engineering 3. Civil Engineering 4. Electrical Engineering
Roll No 152	**TIWARI SHREERAM SANJAY** 1. Find a root of an equation $f(x)=x^4-x-10$ using Secant method 2. Write a note on Mathematical Models. 3. Prepare Forward Difference table for $f(x) = \sin sin\, x + cosx$ where $x = 0$ $(\frac{\pi}{6})$ $\frac{\pi}{2}$ 4. Use Runge-kutta second elder formula to find y(0, 2). Taking h= 0.2 Given that y(0) = 0 and dy/dx =1 + y2 . 5. Calculate linear regression coefficient from the following data. | x | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | y | 3 | 7 | 10 | 12 | 14 | 17 | 20 | 24 |
Roll No 153	**TIWARI VIKRANT SHIVPUJAN** 1. Diet for a sick person must contain atleast 4000 units of vitamin, 50 units of minerals

	and 1500 calories. Two foods F1 and F2 cost Rs. 50 and Rs. 75 per unit respectively. Each unit of food (F1) contains 200 units of vitamins, 1 unit of minerals and 40 calories, whereas each unit of food F2 contains 100 units of vitamins, 2 units of minerals and 30 calories. Formulate the L.P.P to satisfy sicker person's requirement at minimum cost. 2. Solve graphically following LPP Minimise z = 3x + 8y Subject to 3x + 10y >= 150 4x + 5y >= 150 x, y >=0 3. If random variable x follows exponential distribution with parameter 0.5 find a. Mean b. variance c. find 'a' such that P(x > a) = 0.4 4. Use Taylor series method, for the equation $dy/dx = x^2 y$ and y(1) = 1 to find the value of y at x = 1.1, h=0.1 5. Find the solution of the following system using Gauss Seidel Method. $2x_1 + x_2 + x_3 = 5$ $3x_1 + 6x_2 + 2x_3 = 15$ $2x_1 + x_2 + 4x_3 = 8$
Roll No 154	**SAHANI RAKESH RAMLAVAT** **1.** Use Gauss Jordan method to solve the following equation. $2x_1 + 3x_2\ \ 4x_3 = 1$ $5x_1 + 9x_2 + 3x_3 = 17$ $8x_1\ \ 2x_2 + x_3 = 9$ 2. Using bisection method find $\sqrt{30}$ approximately by performing 5 iterations. 3. Find the round off error in storing the number 848.9735 using a four digit mantissa. 4. If true value of x = 1.732 and approximate value of x = 1.73 and z = x3 + x2 1. Then find the absolute, relative and percentage error in calculation of z. 5. For the following data calculate f(0.25) using newton's interpolation formula. x 0.1 0.2 0.3 0.4 0.5 f(x) 1.4 1.56 1.76 2.00 2.28
Roll No 163	**YADAV ROHIT KRISHNA** 1. Use Runge-kutta second elder formula to find y(0, 2). Taking h= 0.2 Given that y(0) = 0 and dy/dx =1 + y2 . 2. For random variable X, the number of heads appears when an unbiased coin is tossed thrice. Find the following. 1. Probability mass function 2. Expected value 3. Variance If P(X=0)=0.125, P(X=2) = 0.375, P(X=3) = p 3. Find the values of x, y and z using Gauss Seidel for following simultaneous equations 3x + 8y + 29z = 71 83x + 11y - 4z = 95 7x + 52y + 13z = 104 4. Find the root correct up to 3 decimal places for $f(x) = e^x - 4x = 0$ using Regula - falsi method. 5. Find the error value of $\mathbf{e^{0.7}}$ of the Taylor series for the first five terms.

Semester IV

Subject : Software Engineering (Practical)

Roll No	Name of the Student : GUPTA ANURAG RAMBABU
208	1. Explain a data flow diagram with an example. (Write Definition, symbols used and 1 example) 2. Explain ATM machine example with respect to State transition machine (Write Definition, symbols used and 1 example)

Roll No	Name of the Student : GUPTA SONALI RAJENDRAPRASD
212	1. Explain use-case model with an example (Write Definition, symbols used and 1 example) 2. Explain Activity Diagram with an example. (Write Definition, symbols used and 1 example)

Roll No	Name of the Student : GUPTA VIVEK NANDU
214	1. Explain sequence diagrams with an example. (Write Definition, symbols used and 1 example) 2. Explain Class Diagram with an example. (Write Definition, symbols used and 1 example)

Roll No	Name of the Student : LAD OMKAR PRADEEP
220	1. Explain ATM machine example with respect to State transition machine (Write Definition, symbols used and 1 example) 2. Explain Activity Diagram with an example. (Write Definition, symbols used and 1

Roll No	Name of the Student : PATHAK ABHISHEK PREMSHANKAR
232	1. Explain sequence diagrams with an example. (Write Definition, symbols used and 1 example) 2. Explain Class Diagram with an example. (Write Definition, symbols used and 1 example)

Roll No	Name of the Student : VISHWAKARMA STYENDRA RAM
258	1. Explain Class Diagram with an example. (Write Definition, symbols used and 1 example) 2. Explain sequence diagrams with an example. (Write Definition, symbols used and 1 example)

Subject : Software Engineering (Internal)

Roll No	Name of the Student : KADAM NITESH RAMCHANDRA
216	1. What are the steps involved in requirements engineering processes 2. Explain in detail the risk management. 3. Explain Unified Modelling Language 4. Explain agile methods with an example. 5. Write short note on black box testing

Subject : Computer Graphics & Application (Practical)

Roll No	Name of the Student : LAD OMKAR PRADEEP
220	1. To write a C program to draw a line using DDA Algorithm 2. To write a C program to draw a line using Bresenham's Algorithm.

Roll No	Name of the Student : PATHAK ABHISHEK PREMSHANKAR
232	1. Write a Program to draw basic graphics construction like line, circle, arc, ellipse and rectangle. 2. Write a Program to draw animation using increasing circles filled with different colors and patterns.

Roll No	Name of the Student : YADAV ABHISHKKUMAR SURENDRA
246	1. Program to make screen saver in that display different size circles filled with different colors and at random places. 2. Write a Program to make a moving colored car using inbuilt functions.

Roll No	Name of the Student : BHAGAT RAVI VISHWAKARMA

252	1. Write a Program to print your name in Hindi script on console output in C. 2. Write a Program control a ball using arrow keys.

Roll No	Name of the Student : SINGH PRIYANSH HARIPRATAP
261	1. Write a Program to implement Digital Clock. 2. Write a program of Translation, Rotation, and Scaling using Composite Transformation.

Subject : Core java (Practical)

Roll No	Name of the Student : GUPTA SONU SIVPRASAD
213	1. Write a Java program that takes a number as input and prints its multiplication table upto 10. 2. Find the smallest and largest element from the array

Roll No	Name of the Student : PATHAK ABHISHEK PREMSHANKAR
232	1. Designed a class that demonstrates the use of constructor and destructor 2. Write a java program to implement single level inheritance

Roll No	Name of the Student : RAJBHAR AKASH PREMKUMAR
234	1. Write a java program to implement method overriding 2. Write a java program to implement multiple inheritance.

Roll No	Name of the Student : SINGH ABHINAV KUMAR
242	1. Write a java program to add two matrices and print the resultant matrix. 2. Write a java program to implement multithreading.

Roll No	Name of the Student : PAL RAHUL AWADHARAYAN
263	1. Write a Java program to print the area and perimeter of a circle. 2. Write a Java program to add two binary numbers.

Roll No	Name of the Student : SHAIKH SAHIL NAIM AHMED
265	1. Write a Java program to convert a decimal number to binary number and vice versa 2. Write a Java program to reverse a string.

Roll No	Name of the Student : GUPTA VIKAS MANOJ
266	1. Write a Java program to count the letters, spaces, numbers and other characters of an input string. 2. Designed a class SortData that contains the method asec() and desc().

Roll No	Name of the Student : PANDEY RAJESH KUMAR LAXMIKANT

269	1. Write a java program to demonstrate the implementation of abstract class. 2. Write a java program to implement method overriding

Subject : Computer Oriented Statistical Techniques (Internal)

Roll No	Name of the Student : YADAV ASHISH KANHAIYALAL
260	1. On a final examination in statistics, the mean grade of a group of 150 students was 78 and the standard deviation was 8.0. In algebra, however, the mean final grade of the group was 73 and the standard deviation was 7.6. In which subject was there the greater (i) absolute dispersion and (ii) relative dispersion? 2. For a group of 200 candidates, the mean arid standard deviation of scores were found to be 40 and 15 respectively. Later on, it was discovered that the scores 43 and 35 were misread as 34 and 53 respectively. Find the corrected mean and standard deviation corresponding to the corrected figures. 3. Two variables, X and Y, assume the values $X_1 = 2$, $X_2 = -5$, $X_3 = 4$, $X_4 = -8$ and $Y_1 = -3$, $Y_2 = -8$, $Y_3 = 10$, $Y_4 = 6$, respectively. Calculate: $i.\Sigma XY$, $ii.\Sigma X\Sigma Y$, $iii.\Sigma XY^2$, $iv.\Sigma X^2$, $v.\Sigma(X-Y)(X+Y)$ 4. During one year the ratio of milk prices per quart to bread prices per loaf was 3.00, whereas during the next year the ratio was 2.00. i. Find the arithmetic mean of these ratios for the 2-year period. ii. Find the arithmetic mean of the ratios of bread prices to milk prices for the 2-year period. iii. Discuss the advisability of using the arithmetic mean for averaging ratios. iv. Discuss the suitability of the geometric mean for averaging ratios.

Roll No	Name of the Student : PANDEY RAJESH KUMAR LAXMIKANT

269	**1** Find the value of D_3, D_5, D_7 for the following data. 	Class Interval	0 – 50	50 – 100	100 – 150	150 – 200	200 – 250
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Frequency	10	20	30	20	20 | **2** Find Mean Deviation about arithmetic mean for the following Data. 11, 15, 19, 27, 28, 23, 13, 17, 21, 25 **3** Find the value of P_{25}, P_{50}, P_{75} for the following data. | Class Interval	0 – 25	25 – 50	50 – 75	75 – 100	100 – 125
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Frequency	15	25	30	25	15 | **4** Find the Mode for the following data. | Class Interval	10 – 50	50 – 90	90 – 130	130 – 170	170 – 210
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Frequency	13	20	27	20	13

Subject : Computer Oriented Statistical Techniques (Practical)

Roll No	Name of the Student : GUPTA ROHAN GANGAPRASAD
211	1. Create a Matrix using R and Perform the operations addition, inverse, transpose and multiplication operations 2. Compute the Least squares means using R.

Roll No	Name of the Student : GUPTA SONALI RAJENDRAPRASD
212	1. Compute the Linear Least Square Regression 2. Using R Execute the statistical functions: mean, median, mode, quartiles, range, inter quartile range histogram

Roll No	Name of the Student : MISHRA JAYESH RAMKUMAR
225	1. Using R execute the basic commands, array, list and frames 2. Using R import the data from Excel / .CSV file and Calculate the standard deviation, variance, co-variance.

Roll No	Name of the Student : PATHAK ABHISHEK PREMSHANKAR

232	1. Import the data from Excel / .CSV and perform the hypothetical testing. 2. Perform the Linear Regression using R.

Roll No	Name of the Student : SHAIKH AWEZ AHMED
250	1. Using R perform the binomial and normal distribution on the data 2. Using R import the data from Excel / .CSV file and draw the skewness.

Roll No	Name of the Student : SONI JIGAR BHARAT
251	1. Using R execute the basic commands, array, list and frames 2. Using R import the data from Excel / .CSV file and Calculate the standard deviation, variance, co-variance.

Roll No	Name of the Student : MAURYA YASH RAJESH
253	1. Using R import the data from Excel / .CSV file and draw the skewness. 2. Using R Execute the statistical functions: mean, median, mode, quartiles, range, inter quartile range histogram

Roll No	Name of the Student : SINGH ABHISHEK KUMAR
254	1. Compute the Linear Least Square Regression 2. Using R perform the binomial and normal distribution on the data