Python

No.: 01

1. Write a python program for Sum of squares of first n natural numbers. 15
2. Python Program to merge two files into a third file. 15

No.: 02

1. Write a python program to calculate simple Interest and compound Interest. 15
2. Python Program to demonstrate operations on List. 15

No.: 03

1. Write a python program to make use of following functions of math module: exp(), floor(),factorial(), sqrt(), pow(), cos(). 15
2. Python Program to demonstrate operations on Tuples. 15

No.: 04

1. Write a python program to demonstrate use of recursive function. 15
2. Write a python program for connecting SQLite database and perform insert and delete operation. 15

No.: 05

1. Write a python program to check Armstrong Number using function. 15
2. Write a python program using matplotlib to create Histogram. 15

No.: 06

1. Python program to remove punctuation from string. 15
2. Write a Python GUI program to create a textbox and two buttons exit and hello using tkinter module. Display message on the click of hello button. 15

No.: 07

1. Python program to demonstrate string functions. 15
2. Write a Python GUI program to create a Listbox bar widgets using tkinter module. 15

Web Technologies

No.: 01

1. Create a web page to display name of your college and save the page with your name. **(10)**
2. State the roll of browser and list the names of various browsers. **(10)**
3. Differentiate between static and dynamic websites. **(10)**

No.: 02

1. Create a web page to display name of any IT company you know and save the page with your Roll_no. **(15)**
2. Design a web page with different types of Marquee. **(15)**

No.: 03

1. Design a web page of your department by using blockquote tag, preformatted tag, address tag and applying attributes of HR tags. **(15)**
2. Write HTML code to implement block level tag **(15)**

No. 04

1. Create a frameset that divides browser window into horizontal and vertical framesets. **(10)**
2. Design a web page of your study center using blockquote tag, preformatted tag, address tag and applying attributes of HR tag **(10)**
3. Differentiate between blockquote and address tag. **(05)**
4. Explain the use of address tag. **(05)**

No. 05

1. Write the javascript code to enter five numbers in the prompt box. Calculate addition of the numbers & average. **(15)**
2. Write HTML code to design a page using all text level tag. **(15)**

No 06

1. Create a student table with the following fields. Student Id, Name, DOB, Course, Address, E-mail id and apply Embedded cascading style sheet CSS with the following attributes:Font size, color, style, bold, italic, border color, set the background image & set the center align of table & text. **(20)**
2. Write procedure to insert a copyright symbol on a web browser **(05)**
3. State difference between block level and text level tags **(05)**

No 07

1. Write html code to develop a web page having the background color red and title “My first Page” in any color. **(15)**
2. Design a form and validate all the controls placed on the form using Java Script. **(15)**

DBMS

No. 01

1. Consider the following structure of employee.

EMP(Empno,Ename,Job,Mgr,Joindate,Salary,Comm,Deptno)

Write SQL queries for the following:

i) Display the list of employee excluding job title as 'Salesman'
ii) Display the average salaries of each department
iii) Change the name of employee 'Rahul Gosai' to 'Jigar Dave'
iv) Display the employee details whose name starts with 'A'
v) Display annual salary of all employees. **(10)**

2. Explain the procedure for **Creating Views**. With Suitable Example **(10)**
3. Explain with suitable example **IF-THEN-ELSE statement in PL/SQL.** **(10)**

No. 02

1. Consider the following table "book"
BOOK(bookno,bookname,price,author,quantity_total,order_quantity)
For the above table –

i) Find out total sale value.
ii) Find out average sales for books which having price more than 200.
iii) Display bookno, price for only those which having author as 'Kanetkar'
iv) Display bookno, bookname which having minimum order quantity 200. **(10)**

2. Explain procedure for **creating Sequence** with example. **(10)**

3. Write a **PL/SQL** program to print **n odd** numbers using **FORLOOP**. **(10)**

No. 03

1. **Que 3.Consider the following structure**

Student_info(Student_ID,sname,Course_name,City)

Course(c_code,title,HOD)

1. Add two attributes to table Student_info as "Phone Number"and "Email Address"

2. Rename Attibutes Title to Course_name for table Course. **(10)**

2.Explain**Primary Key Constraint** with suitable example. **(10)**

3.Explain procedure for **creating Index** with example. **(10)**

No. 04

1. Explain **Referential Integrity Constraint**. (10)

2. Demostrate use of '&'Operator by inserting 2 record in the table (10)

3.Explain procedure for **creating Snapshots** with example. (10)

No. 05

1. **Create following two tables to demonstrate Primary Key-Foriegn Key relation .**

   a. Author(A_id,Author_name,No_of_Books)

   b. Book(Book_id,Book_name,A_id) (10)

2. Explain**ORDERBY** clause of SQL with example. (10)

3. Explain**HAVING** clause with example. (10)

No. 06

1.Explain **IN** and **NOTIN** operators with example. (10)

2.Explain any two **String functions** with example. (10)

3.Explain any four **Arithmetic functions** with example. (10)

No. 07

1.List and explain any four **Arithmeticoperators** with example. (10)

1. List and explain the **SetOperators** in SQL with example. (05)
2. What is the use of **BetweenClause**? Explain with example. (05)
3. Explain **IN** and **NOTIN** operators with example. (10)