**XII BOARD PRATICAL (OBJECTS)**

**H.S.C.PART II COMPUTER SCIENCE**

**C-LANGUAGE & DATABASE PRACTICALS**

1. Write a program that input a year and then check whether it leap year or not .
2. Write a program that read marks of five subject ,calculate the total marks , percentage and state whether candidate is pass or fail.
3. Write a program to generate the table of any inputted number.
4. Find the factorial of an inputted number.
5. Write a program that finds out the greatest number among three input numbers.
6. Write a program which uses arithmetic operators to calculate the area of triangle and volume of sphere .
7. Write a program ,that convert upper case letter to lower case letter and vise versa (using function ) .
8. Write a program to draw a check-board using if-else statement and nested for loops.
9. Write a program that generate characters corresponding to ASCII codes from 32 to 127 (using any loop).
10. Write a program that reads and prints the data using escape sequence (asking the name, age ,height and gender of student using scanf() and printf() statements).
11. Write a program that input a number and then check it whether it is prime or not .
12. Write a program which print a text of four lines consisting of characters, integers value and floating point value using printf() statement and escape sequences.
13. Write a program ,which uses Switch and break statement .
14. Write a program using nested for loop to print the following output .

 \*

 \* \*

 \* \* \*

 \* \* \* \*

 \* \* \* \* \*

1. Write a program that input any two number and then pass these numbers as arguments a function sum1 and then print their sum.
2. Write a program to calculate a pay roll of employees .Read the Basic pay from key board .Calculate medical allowance as 25% of basic pay , conveyance allowance as 20% and house rent 45 % of basic pay and deduction of GP fund 7% of basic pay . Calculate gross pay and net pay .

**VISUAL BASIC**

1. Create a simple form to display Bio-data using label and textbox , which includes Identification No, Name, Father name, Address and Qualification etc.
2. Create a simple Form to add and multiply three numbers. Display the result

 separately using Labels, Textboxes and Buttons.

1. Create simple form to perform arithmetic operation using Labels and Textboxes, each operation should be performed by the buttons in the single form.
2. Create a Form to generate and display numbers from 1 to10 using dowhile/for loop.
3. Create a Form to generate and display, table of given integer by using for loop.
4. Find factorial of number by using any loop statement, read values from Textbox and write in the other Textbox.
5. Create a function, which returns area of a circle of a given radius.
6. Write a program to read users salary from a Textbox and calculate its tax depending upon the income and allowances(using is else nested if-else).
7. Using a form to save and receive data from user in Textbox and save it in Ms Access table.
8. Write a program to print an odd numbers from 101 to 150.(using while

 loop)

**Section C**

MS-ACCESS

1. Create a Database in MS-Access of Bank Accounts

Create two tables , Create relationship between tables .

* 1. Required fields of 1st table are ,

Acc\_ID , Acc\_Name, Acc\_Address, Acc\_Phone ,Acc\_Email

* 1. Required field of 2nd table are :

Acc\_ID , Acc\_status

* 1. Search the desired Acc\_ID , Delete the Desired Acc\_ID.

1. Create a Database in MS-Access of Students Attendance.

Create two tables , Create relationship Between tables .

1. Required fields of 1st table are:

St\_Id. St\_Name , St\_address,St\_Phone, St\_Email.

1. Required fields of 2 nd table are :

St\_Id , St\_Attendence.

1. Search the desired St\_Id , Delete the desired St\_Id also Update desired St\_Id.
2. Create a Database of student information (St\_Id, St\_Name , Class, Group, Sex)
3. Create St\_Id as a Primary key.
4. Input 20 records .
5. Find the list of female pre-engineering group.
6. Find the list of male Pre-engineering group.
7. Create a Database of Library (Book \_Id, Name, Status )
8. Create a suitable primary key , input 20 records with different names
9. Display a list of Book which are issued .
10. Find the list of available Books.

 5. Create a Database of students result information(St\_Id, St\_name ,

 St\_Marks)

1. Create a primary key as a St\_Id.
2. Input 10 records .
3. Sort all records on descending order on St\_marks.
4. Display all records.

 6 Create a Hospital record Database in MS\_Access.

1. Create following tables , input 5 records
2. Create patient\_id as a Primary Key .
3. Create relationship between tables .

 Patient

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Patient\_Id | Name  | Address | Doctor Name  | Admit date  | Discharge Status  | Discharge Date | Charges |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

 Status

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Patient\_Id | Date  | Doctor Name  | Test report  | Prescription  | Disease  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

1. Search all patient under treatment of a particular Doctor name “Muhammad Faizan”
2. Update the prescription of particular patient.

Marks Distribution of C\_language and MS\_Access

|  |  |
| --- | --- |
| Description | New Course |
| Viva Voce | 05 |
| Practical File | 05 |
| Algorithm | 01 |
| Flowchart | 02 |
| Source code(Hard copy + Hand Written) | 04 |
| Output (Hard Copy) of C\_program | 02 |
| MS Access (Procedure+output) | 06 |
| Total | 25 |

 Marks Distribution of Visual Basic and MS\_Access

|  |  |
| --- | --- |
| Description | New Course |
| Viva Voce | 06 |
| Practical File | 06 |
| Visual Basic (Procedure + output) | 08 |
| MS Access (Procedure + output) | 05 |
| Total | 25 |