HIGHER SECONDARY PRACTICAL EXAMINATION – Feb/ March 2018

COMPUTER APPLICATION (Commerce)

Max. Score : 40 **Time : 3 Hrs**

INSTRUCTIONS

- Question Paper carries Two Parts Part – A (Programming in C++) and Part – B (HTML and SQL Statements)
- Answer Two Questions (One from Part – A and One from Part – B)
- Write the correct Program Code / Procedures for the marked Questions.
- Five Marks are deducted for each change of questions (Maximum two changes are allowed)
- Viva voce will be conducted on the basis of the given practical questions
- Score Distribution :

Part – A Programming in C ++	Part – B HTML code / SQL Statements	General
Correct Program Code : 10 Score	HTML Code /Script/ SQL Statements : 10 Score	Record : 4 Score
Execution / Output : 6 Score	Execution / Output : 6 Score	Viva :4 Score

Total **: 40 Score**

Part A – Programming in C++

1. Program to input a number and find the sum of its digits.
2. Program to input a weak number(1 to 7) and print the name of the day (1 – Monday, 2- Tuesday etc.).
3. Program to check whether a number is Palindrome or not .
4. Program to check whether String is palindrome or not.

5. Program to Create an array of 10 numbers and find the largest and smallest numbers.

6. Program to find the sum of the squares of the first N natural numbers.
7. Program to check whether a given character is a vowel or not.
8. Program to find the area of a rectangle, a circle and a triangle. Use `switch` statement for selecting an option from a menu.
9. Input a number and check whether it is positive, negative or zero.

10. Input three numbers and find the largest.

11. Program to check whether a given year is leap year or not.

12. Input a digit (1 to 10)and display the corresponding digit in words using switch statement

13. Find the sum of the digits of an integer number.

14. Display the multiplication table of a number having 12 rows.

15. Create an array of N numbers and count the number of even numbers and odd numbers in the array.

16. Input a number and check whether it is prime or not.

17. Display the first N terms of Fibonacci series.

18. Find the factorial of a number with the help of a user-defined function.

19. Find the length of a string without using strlen() function.

20. Write a C++ program to display the following patters:

    1

    12

    123

    1234

21. Program to find sum of even numbers up to 20.
22. Program to find the decimal equivalent of a Binary number.

Part B – Web Application and SQL Statements

1. Design a simple and attractive web page for Kerala Tourism. It should contain features like background color/image, headings, text formatting and font tags, images, etc.
2. Design a simple web page about your school. Create another web page named

address.html containing the school address. Give links from school page to address.html.

3. Design a personal web page for your friend. It should have a link to his e-mail address.

4. Design a web page as shown below using appropriate list tags.

List of Nobel Laureates from India

Rabindra Nath Tagore

He was the first to get Nobel Prize from India. He received prize in literature in 1921. He got Nobel Prize for his collection of poems "Gitanjali".

C V Raman

He got Nobel for Physics in 1930. He received Nobel Prize for his contribution called Raman Effect.

Mother Teresa

Mother Teresa who founded Missionaries of Charity which is active in more than 100 countries received Nobel Prize in 1979.

Amartya Sen

Amartya Sen was awarded Nobel Prize in 1998 in Economics. He has made contributions to welfare economics, social choice theory etc.

Kailash Satyarthi

He is a child right activist who founded "Bachpan Bachao Andolan" in 1980. He shared Nobel prize for peace in 2014.

5. Design an HTML document to create a simple web page as shown below

DEPARTMENT OF TOURISM
KERALA STATE

Tourist Attractions in Kerala

A Thiruvananthapuram

1. Kovalam Beach
2. Padmanabha Temple.
3. Museum.

B. Eranakulam

1. Bolgatty Palace
2. Vembanad Lake
3. Cohin Shipyard

C. Kozhikode

1. Beypure Port
2. Kappad Beach
3. Thusharagiri.

6. Write an HTML document to prepare an application form to accept your Bio – Data (Information such as Name, Date of Birth, Sex, Caste, Qualifications, Hobbies, address ..... are to entered).

7. Design a web page containing frames that divide the screen vertically in the ratio 50:50. and display any simple web pages in the frames.

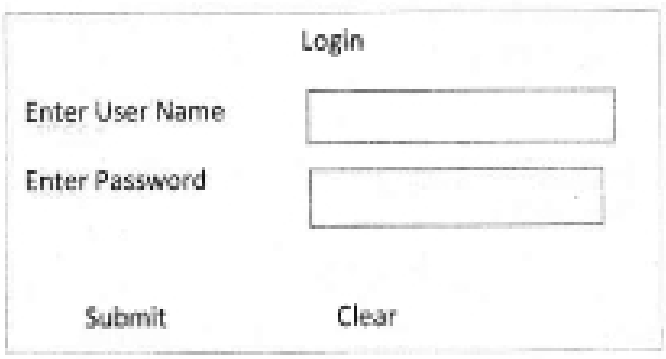
8. Develop a web page with two text boxes and a button labeled "Show". The user can enter a number in the first text box. On clicking the button, the second text box should display the sum of all numbers up to the given number. Write the required JavaScript.

9. Prepare an HTML document to create the following Table

GROUP	SECOND LANGUAGE		
	MALAYALAM	HINDI	TOTAL
SCIENCE	35	25	60
COMMERCE	42	18	60
HUMANITIES	30	30	60

10. A web page should contain one text box for entering a text. There should be two buttons labeled "To Upper Case" and "To Lower Case". On clicking each button, the content in the text box should be converted to upper case or lower case accordingly. Write the required JavaScript code for these operations.
11. Develop a web page with two text boxes and a button labeled "Show". The user can enter a number in the first text box. One clicking the button, the second text box should display the day corresponding to the given number using switch statement in JavaScript. (1 – Sunday, 2 – Monday, ..., 7 – Saturday)

12. Develop a web page with two text boxes and a button labeled "Show". The user can enter a number in the first text box. On clicking the button, the second text box should display whether the number is even or odd. Write the required JavaScript code.
13. Develop a web page with two text boxes and a button labeled "Show".The user can enter a number in the first text box. One clicking the button, the second text box should display the sum of all numbers up to the given number. Write the required JavaScript.
14. Design a simple web page as shown below:



15.Prepare an HTML document to prepare the following table

Class	Group		
	Science	Commerce	Humanities
Plus1	60	58	60
Plus2	55	50	60

SQL Statements

Write SQL statements to create the following table and subsequent queries as given below.

1.Create a table "student" with the following fields :

Roll_No Integer Primary Key, Name Character (25),Batch Character(20), Mark1 integer,Mark2 Integer, Mark3 Integer and Total Integer.

(a). Insert data in to the fields except Total (At least 5 records).

(b). Update the field Total as the sum of Mark1, Mark2 and Mark3.

(c). Display all records from the table.

(d). Display the highest score in Mark3.

(e). List the details of students in 'Commerce' batch.

(f). Display Name and Total in descending order of the Total.

(g) Delete the student who scored below 30 in Mark3

2. Create a table "Employee" with the following fields :

Emp_No Integer Primary Key, Name Character (25), Designation Character (25), Department Character (25), Salary Number (8,2), DA Number (8,2) and net_Salary Number(9,2).

(a). Insert data except DA and Net_Salary (At least 5 records).

(b). Update DA as 86 % of Salary for all employees.

(c). Update Net_Salary as sum of Salary and DA.

(d). Display the details of all employees.

(e). Display Name and Net_Salary of empl yees from 'Education' Department.

(f). Display the details of employee with gross pay below 10000.

3. Create a table " Bank " with the following fields:

Acc_No Integer Primary Key, Name Character (25), Branch Character (25) [Values must be "Trivandrum", "Kochi" or "Calicut"] and Amount Integer.

(a). Insert at least 5 records in to the table.

(b). Display Branch and total amount deposited in each Branch.

(c). Display Acc_No and Name of all customers in "Calicut" branch.

(d). Display Names of all customers having amount between 25000 and 50000.

(e). Display total number records in the table.

4. Create a table " Customer " with the following fields:

Acc_No Integer Primary Key,Name Character (25), Branch Character (25) [Values must be "Trivandrum", "Kochi" or "Calicut"] and Amount Integer.

(a). Insert at least 5 records in to the table.

(b). Display the details of customers in "Calicut" or "Kochi" Branch.

(c). Display Name and Amount of all customers having Amount less than 1000.

(d). Display Branch and average amount in each Branch.

5. Create a table "Book " with the following fields and insert at least 5 records into the table.

Book_ID Integer Primary key ,Book_Name Varchar (20) ,Author_Name Varchar (25)
Pub_Name Varchar (25) ,Price Decimal (10,2)

Insert at least 5 records to the table.

a. Display the details of books with price 100 or more.
b. Display the Name of all the books published by SCERT.
c. Increase the price of the books by 10% which are published by SCERT.
d. List the details of books with the title containing the word "Programming" at the end.
e. Remove all the books written by "Balaguruswamy".
f. Display the details of books of the same author together in the descending order of the price published by NCERT.