ST. LAWRENCE HIGH SCHOOL
A Jesuit Christian Minority Institution
Pre Annual Examination- 2020

FOR GOD AND COUNTRY

Sub: Computer Science   **Class: XI A1, A2, D**   **F.M.: 70**

Duration: 3 Hours & 15 Minutes   **Date: 17ᵗʰ January, 2020**

[Special credit will be given for answers which are brief and to the point. Marks will be deducted for spelling mistakes, untidiness and bad handwriting. Figures in the margin indicate full marks for the questions.]

SOLUTION

GROUP A
[Multiple Choice Type Questions]

1. Choose the correct option: [1×21=21]

   (i) Which generation computers used Transistors?

   Answer: (b) Second

   (ii) CRAY-1 is an example of _____ generation computers:

   Answer: (b) Fourth

   (iii) The first functional automatic calculator was invented by:

   Answer: (a) Blaise Pascal

   (iv) EDVAC is an example of _____ generation computers:

   Answer: (d) First

   (v) Which of the following function is used to read a single character from the standard input device?

   Answer: (b) gets ( )

   (vi) Which of the following functions returns the length of a string?

   Answer: (c) strlen ( )

   (vii) Accumulator is a _____

   Answer: (d) Register

   (viii) Which of the following is defined as the character array?

   Answer: (b) string

   (ix) _____ technique is best suited for bank cheques:

   Answer: (d) MICR

   (x) A list of instructions used by a computer is called:

   Answer: (a) Program

   (xi) A collection of 8 bits is called:

   Answer: (a) Byte

   (xii) Which of the following is used to denote logical addition operation in Boolean Algebra?

   Answer: (c) '&'

(xiii) The simplified expression of xyz+xy is:

        Answer: (a) xy

(xiv) 1's complement of 1001 is:

        Answer: (b) 0110

(xv) Which of the following memory is volatile?

        Answer: (a) RAM

(xvi) The number of minterms for n variables is:

        Answer: (c) 2^n

(xvii) _____ is an internal command is DOS:

        Answer: (b) CD

(xviii) In flowchart the _____ box indicates the input and output operations:

        Answer: (b) Parallelogram

(xix) Which of the following is a relational operator in C?

        Answer: (b) ==

(xx) The _____ statement is used to exit from the loop.

        Answer: (b) break

(xxi) The _____ operator is used for the comparison of two identities.

        Answer: (a) Assignment

GROUP B

(2) Answer the following questions: [Alternatives are to be noted]   **[1×14=14]**

    (i) Mention the full form of ENIAC

        Electronic Numerical Integrator and Calculator

                OR,

        What is the full form of UNIVAC?

        Universal Automatic computer

    (ii) What is MICR?

        Magnetic Ink Character Reader.

                OR,

        What is a 'Plotter'?

        A plotter is a pen based output device that is attached to a computer for making vector graphics, that is images created by a series of straight lines.

    (iii) Define Macro Computer.

        It is a small low cost digital computer.

(iv) What is Positional Number system?

In this system, there are only a few symbols called digits and these symbols represent different values depending on the position they occupy in the number.

(v) Draw the truth table for a 2 variable Boolean OR operation.

A	B	F=A+B
0	0	0
0	1	1
1	0	1
1	1	1

(vi) Mention the full form of EPROM

Erasable Programmable Read Only Memory

OR,

Mention the function of Flash memory.

Flash memory is a variation of electrically erasable programmable read only memory.

(vii) What is the function of getch( )?

It is used in a program to get the output.

(viii) What is Application software?

They are specifically designed to perform a particular type of function or application.

OR,

What is Multitasking OS?

In this system more than one process can be executed concurrently.

(ix) Convert the binary number 11101010 into its decimal form.

(x) What is Wildcard character in DOS?

* and ? are the characters.

(xi) Convert $(675)_8$ to $(?)_{16}$

(xii) Define data types in C.

By data type we specify the type of data-Inter, float or character.

(xiii) What is Loop in C language?

Where the specific code will be executed in a program.

OR,

Define an Array.

An array is a collection of similar type of variables under a common variable heading or name.

(xiv) What do you mean by String in C?

By using string we mean a collection of characters to form a word, name, sentence, paragraph etc.