ST. LAWRENCE HIGH SCHOOL

THIRD TERM EXAMINATION – 2019
CLASS – 7

SUBJECT – COMPUTER SCIENCE_SOLUTION
DURATION – 2 HOURS

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F.M.: 70
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GROUP - A

1) **Select the correct option:**   (5X1=5)

   i)   1011 in binary is equivalent to which decimal number :

   (a) **11**   (b) 12   (c) 13   (d) 14

   ii) The cell labeled F5 refers to:

   (a) row F column 5   (b) **column F row 5**
   (c) Functions available in cells   (d) None of these

   iii) When one loop is used inside another loop, it is called a :

   (a) **Nested loop**   (b) Step loop   (c) Gradient loop   (d) None of these

   iv) In Photoshop this tool helps us to create another copy of the whole image, or a part
        of it, depending on what is selected from the drop-down menu :

   (a) Gradient   (b) **Stamp**   (c) Eraser   (d) Dodge

   v)   This networking device helps to send data between networks using TCP/IP addresses:

   (a) **Router**   (b) Switch   (c) Bridge   (d) Hub

2) **State TRUE or FALSE:**   (5X1 = 5)

   i)   Repeater is a set of rules that computers in a network must adhere to ---- **FALSE**
   ii) The DO WHILE...loop is executed until a certain condition becomes true --- **FALSE**
   iii) The Color Replacement tool is used to replace a particular colour by another colour -
        -- **TRUE**
   iv) #REF! error occurs when a cell reference is not valid --- **TRUE**
   v)   Quarantine action isolates a file with virus signature and makes it inaccessible ---
        TRUE

3) **Fill in the blanks:**   (10X1 = 10)

   i) A <u>network</u> is a collection of individual computers that are interconnected so that information can be easily exchanged.

   ii) An interpreter or compiler converts a <u>high – level</u> language into binary code.

   iii) The intersection of a row and a column in Excel is called a <u>cell</u>.

   iv) When a filter is applied to a range of cells, only the rows that meet the <u>specifications</u> get displayed.

   v) The process of recording data onto CDs is called <u>burning</u>.

   vi) <u>GOTO</u> command is used to shift the control of the program to the desired command.

   vii) The <u>Marquee</u> tool helps to select a part, or parts, of an image by dragging over them.

   viii) The <u>Hand</u> tool helps us to move from one block to another in a magnified image.

   ix) In HTML the <u>
</u> tag is used to create a line break in the page.

   x) When both ON and OFF tags are present, the tag is called a <u>container</u> tag.

SECTION – B

4) **Answer the following(ANY 10):**   (10X2=20)

   i) Convert 259 into its binary form.

   A: 100000011

   ii) When does the errors #### and #VALUE! Occurs in excel?

   A: #### - occurs when a column is not wide enough, or a negative date or time is used.

   #VALUE! – occurs when the wrong type of operand is used

   iii) Name the two options for filtering ranges.

   A: Filter or AutoFilter & Advanced Filter.

   iv) What do you know about ARPANET?

   A: The Advanced Research Projects Agency Network was the first computer network designed by the Department of Defense in the United States.

   v) Name two special software to save files on a CD.

   A: Express Burn, Nero, Pyro, Roxio Creator.

   vi) What is the function of PRINT command in QBASIC? Give its Syntax.

   A: The PRINT command is used to display text or message on the screen

   SYNTAX: PRINT "Message"

   vii) Why looping is used in a program? Which loop is considered to be one of the most time saving commands?

   A: To repeat certain statements or commands a number of times during execution of a program looping is used.

   FOR....NEXT loop is considered to be one of the most time saving commands.

   viii) What does HTML stands for? What is a web page?

   A: Hyper Text Markup Language.

A web page is a document containing text, pictures, audio, video etc. created using HTML.

ix) What are the two main types of HTML editors?

A: 1. WYSIWYG(What You See Is What You Get) editor

2. TEXT editor

x) What are the two types of images?

A: 1. Bitmap images

2. Vector images

xi) Name any two kinds of tools in the Photoshop toolbox.

A: The tools are:

- Selection tools
- Painting tools
- View tools
- Path, Pen, Text and Shape tools.

xii) State any two rules for naming a variable.

A: 1. Variable name can contain numbers or letters but the first character should be a letter.

2. Cannot contain spaces.

3. underscore(_) is the only special character that is allowed.

4. A variable name to store a string value must be terminated with a $ sign.

SECTION – C

5) Answer the following: (Any 6)   (6X5 = 30)

i) Along with the name of some machines developed, state what are the major milestones achieved in Fourth and Fifth generation computers? $(2\frac{1}{2} + 2\frac{1}{2})$

A:

GENERATION	MAJOR MILESTONES	MACHINES DEVELOPED
4th	Large integrated circuits and Very Large integrated circuits	Minicomputers, Personal Computers
5th	Parallel processing and AI	Supercomputers

ii) Compare comma(,), semicolon(;) and colon(:) punctuations with respect to output in QBASIC programming. (5)

A:

Comma(,)	Semicolon(;)	Colon(:)
Causes the output to be displayed after leaving a gap of 8 - 10 characters approcimately	Causes the computer to print the output with no spaces.	Allows to write more than one statement on a single line

iii) What is the difference between DO WHILE...loop and DO UNTIL...loop? (5)

A:

DO WHILE...LOOP	DO UNTIL..Loop
The DO WHILE...loop is executed 'while' the test expression in the loop is TRUE	The DO UNTIL...loop is executed 'until' the condition specified is FALSE.

Example:
count = 1
DO WHILE count <= 5
    PRINT count
    count = count + 1
LOOP
 	
OUTPUT:
1
2
3
4
5
	Example:
	count = 1
	DO UNTIL count > 5
	    PRINT count
	    count = count + 1
	LOOP
	
	OUTPUT:
	1
	2
	3
	4
	5

iv) Write a program in QBASIC to print all the odd numbers from 19 to 30 using DO WHILE...loop. (5)

A: REM using DO WHILE
```
A = 19
DO WHILE (A< = 30)
PRINT A
A = A + 2
LOOP
END
```

v) What is the utility of lasso tool? How many types of lasso tools are there? (2+3)

A: Lasso Tool allows the free – hand selection of a part of the image.

Three Types:
- Lasso Tool
- Polygonal Lasso Tool
- Magnetic Lasso Tool

vi) Name the different formats using which we can save & open files in Photoshop.(5)

A: PSD, TIF, Bitmap, JPEG, PDF

vii) What is FTP? What is uploading and downloading? [3+(1+1)]

A: When information is transferred from one computer to another, it is important that both the computers, i.e. the sender and receiver are using the same set of rules, because it determines the format in which data is being sent. This set of rules is called File Transfer Protocol(FTP).

When a file is sent to a remote computer – uploading

When a file is copied from a remote computer – downloading

viii) Discuss the parts of the following URL:

https://www.google.com

A: **https** – This indicates the access method or protocol used by the server containing the website

Google.com – indicates the domain name of the server

.com – provides information about the type of organization that owns or supports the website. Here it is a commercial organization.

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