ST. LAWRENCE HIGH SCHOOL

THIRD TERM EXAMINATION – 2019
CLASS – 6

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SUBJECT – COMPUTER SCIENCE_SOLUTION
DURATION – 2 HOURS

F.M.: 70
DATE - 11. 11 .2019

GROUP - A

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

i) This is a volatile memory:

(a) <u>RAM</u> (b) ROM (c) DVD (d) Pen drive

ii) All excel files are saved with this extension :

(a) .xlxs (b) <u>.xlsx</u> (c) .xl (d) None of these

iii) A popular web browser developed by Apple is :

(a) Chrome (b) Firefox (c) <u>Safari</u> (d) All of these

iv) This command tells the QBASIC interpreter to print something on the screen:

(a) SHOW (b) OUTPUT (c) DISPLAY (d) <u>PRINT</u>

v) The most common resolution is:

(a) <u>640 X 480</u> (b) 320 X 200 (c) 980 X 1200 (d) None of these

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

i) Generally the speed of a computer is measured in MIPS--- <u>TRUE</u>
ii) An excel document containing workbooks is called a worksheet --- <u>FALSE</u>
iii) Google chrome is a fast web browser developed by Microsoft --- <u>FALSE</u>
iv) QBASIC stands for Query BASIC --- <u>FALSE</u>
v) The display on a computer screen is made up of hundreds of pixels --- <u>TRUE</u>

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

i) A <u>touchscreen</u> is a display which can detect the presence and location of a touch within the display area.
ii) Voice recognition software take inputs in the form of <u>sound waves</u>.
iii) <u>Formula</u> bar displays the content of the active cell.
iv) Numbers & formulae are together called <u>values</u>.
v) In an email account <u>sent</u> folder keeps a record of all the mails sent by you.
vi) <u>ISP</u> registers the name of the internet user & provides him or her a username, a password & the phone number for the connection.
vii) If a $ sign is added to the end of a variable, the variable becomes a string.

viii) IF – THEN – ELSE is a <u>Conditional</u> statement.

ix) There are <u>13</u> graphics modes in QBASIC.

x) By default the screen mode in QBASIC is <u>0(zero)</u>.

GROUP – B

4) <u>Answer the following(ANY 10):</u>   (10X2=20)

i) **Write two differences between primary and secondary memory.**

A: Primary memory is the main memory of the computer, comprises of RAM and ROM. Secondary memory is used to store information that is not required frequently. E.g. Hard disk, CD – ROM etc.

ii) **What are supercomputers?**

A: Supercomputers are high precision computers and can carry out billions of instructions per second.

iii) **How many rows and columns are there in a MS – Excel worksheet?**

A: 65536 rows & 256 columns.

iv) **Mention any two types of data that can be entered in a worksheet.**

A: Text data, Numeric data, Formulae.

v) **What are search engines? Name two most commonly used search engines.**

A:Search Engines are tools used to get information from the internet in case the user don't know the URL or the related websites of the information source.

Most commonly used search engines: MSN, Google, Yahoo etc.

vi) **What is the function of Outbox and Trash folder in an e-mail account?**

A: <u>OUTBOX</u>: This keeps a record of all the mails that are waiting to be sent. These mails remain in this folder till they are sent.

<u>TRASH</u> : This folder keeps a record of all the deleted mails.

vii) **Name any two types of operators in QBASIC with examples.**

A: 1. ARITHMETIC : +, -, * etc.

2. RELATIONAL: = , < , > etc.

3. LOGICAL : AND, OR and NOT

viii) **How the output will be printed if semicolon (;) is used along with PRINT command in QBASIC?**

A: If semicolon is used, the output will be printed in a continuous fashion without any space between the words.

ix) **What is the use of PAINT command? Give syntax.**

A: The PAINT command is used to fill any closed figure with a specified colour.

SYNTAX : PAINT (X, Y), Fill Color, Border Color

x) **What is the advantage of using SOUND command over BEEP command?**

A: BEEP command produces a similar sound every time it is used while the SOUND command produces different types and pitches of sound.

xi) What is the utility of REM statement?

A: The REM statement does not get displayed in the interpreter. This command helps to add comments or remarks into a program without affecting its flow. These remarks are usually added at the beginning of the program to show what the program is all about.

xii) What is a variable? How many categories of variables are there?

A: A variable is an area within a program which can be referred to by a name and whose value can change during execution of the program. It is a piece of data kept in the computer memory(RAM)

2 categories: Numeric variables and Alphanumeric Variables.

GROUP – C

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

i) Write a note on ATM. (5)

A: ATM or Automated Teller Machine helps us to take out money round the clock. To do transactions through an ATM, we need an ATM card. The card has a thin magnetic strip, which is interpreted by the computer fitted inside the ATM machine. Inputs are given by pressing buttons or sometimes by the means of touchscreen.

ii) What are the advantages of using excel worksheets? (5)

A:

- Data can be maintained in systematic manner in a tabular form.
- Addition, Subtraction and other basic calculations can be performed easily on a large amount of data.
- Data can be updated with much more ease. One does not have to rewrite the whole data as in the case with paper files.
- Data can be presented in the form of charts with the use of bar graphs.

iii) What are the requirements for having an Internet connection? (5)

A: The requirements are as follows:

i.   A computer
ii.   A cable Modem for a broadband connection or, DSL(Digital Subscriber Line) for a dial-up connection.
iii.   An account or registration with an ISP(Internet Service Provider) like Airtel.
iv.   A software of the particular ISP.
v.   A browser . E.g. Microsoft Internet Explorer.

iv) Write a program in QBASIC to print S as the sum of A and B. (5)

A: REM Addition of two numbers
INPUT "Enter the first number: " ; A
INPUT "Enter the second number: " ; B

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S = A + B
PRINT "The sum is : " ; S
END
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v) What is the syntax of CIRCLE command? Explain it.   **(5)**

A: The CIRCLE command is used to draw a circle on the QBASIC screen.
Syntax: Circle(X, Y), Radius, Color
In the above syntax:
- X and Y specify the coordinate of center point.
- Radius gives the radius of the circle
- Color specifies the outline colour of the circle.

vi) Name five features of QBASIC interface?   **(5)**

A: The QBASIC interface has the following features:
1. Menu
2. Name of the current program
3. Window to immediately execute a command
4. Status bar
5. Status of Caps Lock and Num Lock
6. Current line of cursor
7. Current column of cursor

vii) What do you know about Spam and Starred folder in an e-mail account?   **(5)**

A: SPAM: This folder keeps mails that the users' mailbox identifies on its own as junk mails.
In some other websites, this folder has been named as 'Junk'.
STARRED : This helps the user to view the e – mail messages that might have marked with a
star. This feature helps the user to organize the messages.

viii) Write a note on Cache memory   **(5)**

A: A cache memory is a place to store something temporarily. When we visit a web page,
the cache memory stores the page in it for a short while. Whenever we visit the same page
again, the web browser downloads it much faster and saves our time.

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