

Phalguni
02/11/18



ST. LAWRENCE HIGH SCHOOL

A Jesuit Christian Minority Institution



Third Term Examination – 2018

CLASS – 7 (Model Questions and Answers)

Subject: COMPUTER

F.M:70

Time Allotted: 2 hrs

Date: 01/11/2018

Instructions: Read the questions carefully and answer as directed. The intended marks for questions or parts of questions are given the bracket []. Do not write anything on the question paper unless instructed.

Group – A [20]

1. Fill in the blanks with the correct words : [5]

```
REM Finding the shorter person
INPUT " Enter the height of second person "; H1
INPUT "Enter the height of second person"; H2
IF H1<H2 THEN
PRINT "The first person is shorter"
ELSE
PRINT "The first person is shorter"
END IF
END
```

2. In which menu/tool do we find the following? [5]

Srl No.	Options	Menu/Tool
a.	Preset Shapes	Shapes
b.	New Layer option	Layer
c.	Option to add texture	Filter
d.	Type text	Text
e.	Align text	Paragraph

3. Identify the tools from following statements in the context of Photoshop: [5]

- a) It helps us to create the copy of an image. → **Clone Stamp**
- b) It helps us to make free-hand selections. → **Lasso**
- c) It helps us to magnify images. → **Zoom**
- d) It is used to remove unwanted areas in an image. → **Eraser**
- e) It is used to draw and colour image. → **Brush**

4. Choose the correct answer for each question:

[5]

- i) Choose the tool that allows free-hand selection of a part of an image:
(a) Lasso (c) Brush
(b) Clone Stamp (d) Dodge
- ii) Which is the correct format in which we can open and save files in Photoshop?
(a) PSD (c) TIF
(b) PDF (d) All of these
- iii) Which of the following is used as a control statement in QBASIC?
(a) REM (c) IF...THEN...ELSE
(b) IF...THEN... (d) both (b) and (c)
- iv) Arrange the following networks from wider coverage to a smaller area network – LAN, MAN and WAN.
(a) LAN, MAN and WAN (c) WAN, MAN and LAN
(b) LAN, WAN and MAN (d) MAN, WAN and LAN
- v) What does resolution refer to?
(a) The number of pixels per square inch.
(b) The square mesh.
(c) The brightness and colour of the monitor.
(d) All of these.

Group – B [20]

5. Write answers for the following questions. (ANY 10)

[10 × 2 = 20]

- a) What is a conditional statement? Which command is used for it?
Ans : A conditional statement is a mechanism that allows for conditional execution of instructions based upon the outcome of a conditional statement, which can either be true or false.
Command : IF...THEN...ELSE
- b) Write the full form of QBASIC. Write any 2 versions of BASIC.
Ans : QBASIC : Quick Beginners All purpose Symbolic Instruction Code
Versions : BASICA, GW-BASIC
- c) Define resolution.
Ans : The number of pixels or dots per inch is called resolution.
- d) Write short note on PRINT and REM command.
Ans : PRINT : It is to display text or message on the screen. Example : PRINT "I study in class 7"

REM : It is used to put comments in the program. It has no effect on the program execution. Example : **REM** to calculate sum of two numbers.

- e) Write the syntax for DO...WHILE loop.

Ans : Syntax:

```
DO WHILE (Condition specified is true)
    REM Loop body goes here
    REM Increment/decrement statement specified
```

LOOP

- f) What are the kinds of images that are created in Photoshop?

Ans : Bitmap and Vector images

- g) Write the output for the following code snippet:

```
FOR K = 1 TO 5 STEP 1
    FOR J=1 TO K
        PRINT "*"
    NEXT J
    PRINT
NEXT K
```

Output:

```
*
**
***
****
*****
```

- h) List out the different Selection tools used in Photoshop.

Ans : Marquee, Lasso, Crop, Eyedropper, Magic Wand

- i) What are layers in Photoshop?

Ans : Photoshop layers are like sheets of stacked acetate. We can see through transparent areas of a layer to the layers below. We can move a layer to position the content on the layer, like sliding a sheet of acetate in a stack. We can also change the opacity of a layer to make content partially transparent.

- j) Write 2 ways in which we can change the order of layers in an image in Photoshop.

**Ans : 1. By using the Layers palette
2. By using the Layers menu**

- k) Differentiate between an empty tag and a container tag.

**Ans : empty tag: when an ON tag is present but the OFF tag are missing in a tag.
container tag: when both ON and OFF tags are present in an HTML tag.**

- l) Write the use of <hr> and
 tags in HTML.

Ans : <hr> : to draw a horizontal rule anywhere in the HTML document.

and `
` : to create a line break in the page.

Group – C [30]

6. Write answers for the following questions in detail. (ANY 6) [6 × 5 = 30]

- i) Differentiate between DO WHILE... and DO UNTIL... loops with the help of an example.

Ans: **DO WHILE..** : The blocks of statement(s) within the loop gets executed till specified condition specified is true.

Ex- REM to print odd numbers 1 to 10.

```
A= 1
DO WHILE A<=10
    PRINT A
    A= A+2
LOOP
```

DO UNTIL.. : The blocks of statement(s) within the loop gets executed till specified condition specified is false.

Ex- REM to print odd numbers 1 to 10.

```
A= 1
DO UNTIL A > 10
    PRINT A
    A= A+2
LOOP
```

- ii) Explain the syntax of the FOR...NEXT loop with an example.

Ans : **FOR (loop variable) = initialValue To endValue STEP stepValue**
...Statements to be executed repeatedly...
NEXT (loop control variable)

Ex- FOR a=1 to 5 step 1

```
Print "*"
NEXT a
```

- iii) Describe the different formats in which we can open and save files in Photoshop.

Ans : **PSD** : This gives a .psd extension to its file name. Photoshop files are saved in this format by default.

TIF : this gives a .tif extension to the file. Usually, .tif files are very big in size.

Bitmap : This gives a .bmp extension to the file. It is a file of much smaller size.

JPEG : This gives a .jpg extension to the file. JPEG files are of very small but very poor quality too.

iv) How do we create a new file in Photoshop, describing all the specifications that need to be given?

Ans : Steps:

1. Click on New from File menu.
2. A dialog box opens up for where you need to select or provide appropriate values for the parameters- Name, Size, Resolution, Mode.
3. After giving the desired specifications to the new page, the Photoshop window opens up, with the toolbox on the left. It is a floating toolbox, i.e, we can move it to any place we want, by just dragging and dropping.

v) How do we apply a filter to an image?

Ans :Steps :

1. Select the area where we can apply a filter.
2. If we want to apply a filter to the whole layer, do not select the image.
3. Choose the desired filter from the Filter menu.
4. There are many filter effects that we can choose from.
5. All filter sub-menus to choose from by clicking on the little triangle alongside.

vi) Write a program (WAP)

(1) To print "St. Lawrence high school" 10 times using DO...WHILE LOOP.

Ans : LET A=1

DO WHILE (A<=10)

PRINT "ST. LAWRENCE HIGH SCHOOL"

A=A+1

LOOP

(2) To print odd numbers between 13 and 31 using the DO UNTIL... LOOP.

Ans : LET A = 15

DO UNTIL (A>31)

PRINT A

A=A+2

LOOP

vii) WAP to:

(1) Check whether a number is even or odd.

Ans : CLS

REM "to decide whether a number is even or odd"

PRINT "Enter your number"

INPUT num

IF num mod 2 = 0 THEN

PRINT "Even number"

ELSE

PRINT "Odd number"

END IF

END

(2) Check if a number is **positive** or **negative**.

Ans : CLS

REM "to decide whether a number is positive or negative"

PRINT "Enter your number"

INPUT num

IF num >= 0 THEN

PRINT "Positive number"

ELSE

PRINT "Negative number"

END IF

END

viii) What is a variable? Write the rules for naming a variable. Provide a suitable example.

Ans : Variable is name of reserved area allocated in memory. In other words, it is a name of memory location. It is a combination of "vary + able" that means its value can be changed.

Rules :

1. Must begin with an alphabet letter.

2. Should neither contain spaces nor any special characters like @, \$, %, !, # or &. [underscore(_) is allowed].

**3. A variable name which can store a string value must be terminated with a \$ sign.
Ex- name\$.**