Answer Class of Class (7)

Scholars
Global School

HALY YEARLY EXAMINATION, SUBJECT: COMPUTER

Class: VII **Max Marks: 30**

Time: 1:00hr **Date: 28-08-2019**

Name : ..... **Roll No. :** .....

Marks Obtained : ..... **Sign. Of Invigilator :** ..... **Sign. Of Examiner :** .....

Instructions:

1. Read all the questions carefully and then answer.
2. Attempt all questions.
3. Marks for each question are indicated in front of the question.

Q.1.Fill in the blanks - (0.5X10=5 Marks)

a) A Numbersystem is a mathematical way to write numbers.

b) The binary number system is also called base 2 Number System

c) The Scale option is used to change the size of an image.

d) Our computer only understand binary language.

e) Press the shift key and the left button to draw a straight line.

f) The different writing style of text is called font.

g) We need to click the Controlpanel option from the start menu to enable sleep mode setting.

h) The division method is used to convert a decimal number into binary number.

i) You can manage layers in the layer dialog.

j) We need to right click to select the Personalize option.

Q2.Application Based Question: (0.5 X 4=2 Marks)

1. Sameer wants to draw a Christmas tree in GIMP.For this,he needs to draw three triangles and a rectangle.Which option would he choose from the tools menu?

   Pencil or Paint brush tool

2. Vinay is trying to reduce the size of an image.Which option would be helpful to resize the image?

   Scale tool.

3. Neha is creating the mirror effect of an image in GIMP.Which option will she choose from the transform tools?

   flip option

4. You have an image with white borders.Which option would you chose from the transform tool to trim the borders?

   Crop option.

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Q3. Convert the following numbers into binary numbers (1X 3=3 Marks)

1. 907

2	907	
2	453	1
2	226	1
2	113	0
2	56	1
2	28	0
2	14	0
2	7	0
2	3	1
2	1	1
	0	1

$(907)_{10} = (1110001011)_2$

2. 677

2	677	
2	338	1
2	169	0
2	84	1
2	42	0
2	21	0
2	10	1
2	5	0
2	2	1
2	1	0
2	0	1

$(677)_{10} = (1010100101)_2$

3. 456

2	456	
2	228	0
2	114	0
2	57	0
2	28	1
2	14	0
2	7	0
2	3	1
2	1	1
	0	1

$(456)_{10} = (111001000$

Q4.Convert the following binary numbers into decimal numbers. (1X3=3 Marks)

A) 1011001111

$1\times2^0 - 1$
$1\times2^1 - 2$
$1\times2^2 - 4$
$1\times2^3 - 8$
$0\times2^4 - 0$
$0\times2^5 - 0$
$1\times2^6 - 64$
$1\times2^7 - 128$
$0\times2^8 - 0$
$1\times2^9 - 512$

1
256
32
13
301

512
128
64
15
719

$= (719)_{10}$

B) 100101101

$1\times2^0 - 1$
$0\times2^1 - 0$
$1\times2^2 = 4$
$1\times2^3 = 8$
$0\times2^4 - 0$
$1\times2^5 - 32$
$0\times2^6 - 0$
$0\times2^7 - 0$
$1\times2^8 - 256$

$= (301)_{10}$

C) 1010111

$1\times2^0 - 1$
$1\times2^1 - 2$
$1\times2^2 - 4$
$1\times2^3 - 0$
$1\times2^4 - 16$
$1\times2^5 - 64$
$1\times2^6 - 64$

1
64
16
7
87

$= (87)_{10}$

$\rightarrow (1\times2^6) + (0\times2^5) + (1\times2^4) + (0\times2^3) + (1\times2^2) + (1\times2^1) + (1\times2^0)$

$64 + 0 + 16 + 0 + 4 + 2 + 1$

$= 87.$

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Q5. Answer in one word or sentence? (1X4= 4 Marks)

1. What method will you use to convert Binary number into Decimal Number explain with example?

We use multiplication method.

2. Explain the Screen resolution?

It help us to adjust the amount of information on the screen. If it is high, the size of object decreases and if it is low " " " " Increases

3. Explain the floating layer.

It is a temporary layer. Due to it, we cannot perform some action on the layer. For example we may not able to draw a object in a layer.

4. What is the purpose of the Crop option?

Crop option is used to trim an image.

Q6. Name the following: (0.5x 4=2 Marks)

1. The menu under which the Scale option is available. tools.
2. We can view the system configuration on this window computer System
3. The section where the Floating Selection layer is visible. Layers
4. This button is used to keep the screen resolution changes Keep

Q7.Answer the following questions: (4x2=8 Marks)

Q1.Write the steps to Flip an image.

(1) open the image we want to edit.
(2) on the image window, click the tools menu
(3) Point to transform Tools.
(4) click the ~~opt~~ flip option
The mouse cursor turns into ⟷
(5) click the image
The image gets flipped.

Q2.Explain the Decimal Number System with example?

We use decimal numbers every day. The decimal number system consists of digit 0-9. These 10 digits can be used in any combination to form any number. Examples 11, 1171, -571, 28.36, The base of it 10.

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because the total digit in the number, Systems are 10.

Q3. What is Sleep Mode Setting?

The sleep mode in window 7 is used to save the power of the System. If the computer has not been in use for a long time. It goes into sleep mode. All the running processes of the system are stopped. Our work is saved in the temporary period, which requires very less power. When we resume, the processes start from where we left.

Q4. What information can you view in the System window?.

We view operating system properties, RAM Capacity, Rating, System type, computer Name, pen and touch property, Workgroup, processor etc.

Q8. Write steps to crop an image. (3 Marks)

OR

Write the steps to change the screen resolution.

1. Right click on desktop → Screen Resolution → Resolution down arrow
2. Drag the slider to select the required resolution
3. Click the Apply button → Display settings
4. Keep changes
5. Revert
6. Detect
7. Identify
8. Click ok.

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