



# Delhi Public School, Howrah

Periodic Assessment-1 (2024-25)

Class-VII

Subject: - Computer Education- Theory

Time: - 1 Hour

F.M. 20

**General Instructions:**

- The question paper contains 7 questions with sub-parts.
- Read the questions carefully. All questions are compulsory.

**1. Choose the correct option: (0.5X4=2)**

- a. The digits used in the decimal number system are from \_\_\_\_\_.
- i. 0 and 1                      ii. 1 to 9                      iii. 0 to 9                      iv. 1 to 10
- b. In a base-n representation of a number, no digit exceeds \_\_\_\_\_
- i. n                      ii. n-1                      iii. n+1                      iv. n<sup>2</sup>
- c. \_\_\_\_\_ tool enables you to paint using a color already present in your image.
- i. Paintbrush Tool                      ii. Pencil Tool                      iii. Color Picker Tool                      iv. Bucket Fill Tool
- d. In GIMP, which menu helps you to find the 'Brightness-Contrast' adjustment?
- i. Colors                      ii. Edit                      iii. File                      iv. Filters

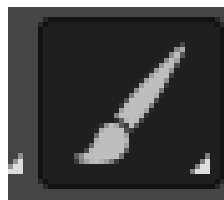
**2. Fill in the blanks: (0.5X4=2)**

- a. A \_\_\_\_\_ is the smallest unit of data that a computer represents.
- b. An eight-digit binary number can be represented by a \_\_\_\_\_ digit hexadecimal number.
- c. In GIMP, the \_\_\_\_\_ displays a variety of icons, each one representing an image – editing tool.
- d. In GIMP, for lightening the image click and drag the \_\_\_\_\_ slider to the right side and to darken the image, drag it to the left side.

**3. Identify the tools and write their names: (0.5X2=1)**



a.



b.

**4. Match the following: (0.5X4=2)**

Column A	Column B
1. Binary number	a. 815G
2. Decimal number	b. 001110010
3. Octal number	c. 7968
4. Hexa-decimal number	d. 0110H0010
	e. 815F
	f. 2671

5. State whether the statements are True or False and rewrite the false statement(s) correctly: (1X4=4)

- a. In a non-positional number system, there are some symbols called digits.
- b. The number 1956 can be an example of octal number system.
- c. With the help of Ellipse select tool, you can make odd shape selections of an image.
- d. For using clone tool in GIMP, Ctrl key must be used.

6. Convert the following number into proper number system as instructed: (1X3=3)

- a.  $(3658)_{10} = (?)_{16}$
- b.  $(1101001)_2 = (?)_{10}$
- c.  $(2467)_{10} = (?)_8$

7. Answer the following questions. (2X3=6)

- a. **Scenario:** A small online retailer needs to remove the background from the product images to use them on a website with a clean, white background. They want to use the specific select tool to select the groups of similarly colored pixel.

**Identify the tool and describe the process or steps of using that particular selection tool.**

- b. Differentiate between:
  - i. Dodge tool and Burn tool in GIMP
  - ii. RGB Mode and Grayscale Mode
- c. What are the purposes of using the Clone tool?