

INTERNATIONAL INDIAN SCHOOL, BURAIDAH

COMPUTER SCIENCE

CLASS 4 A/B - 2025-26

TERM II

Assessment Sheet (L#6 ,L#7,L#8,L#10,L#11,L#14)

SECTION A

Choose the correct answer and write the option.

1. How will you represent the following for compression? - AA AAA AAAA
a) A2 A3 A4 b) A3 +1 +1 c) A3-1 A3 A3+1
2. inside a computer is stored in the form of files.
a) Memory b) Information c) Pattern
3. Suppose there is an image in a 5 x 5 grid comprising exactly 2 colours. Which of the following representations will work?
a) 0 for one colour and 1 for the other colour in the grid. b) 0,1 and 2 for no colorfast colour and second colour respectively. c) 0,1 to 10 for each of two colors, number representing the darkness of shade.
4. The computer stores information in the form of _____ and _____.
a) 0 and 1 b) A and B c) True and False d) Numbers and alphabets
5. If sum of 4 numbers is 12, next 3 numbers is -11 and next 3 numbers is 8, then which group surely consists of at least one negative number?
a) First b) Second c) Third
6. If the sum of 5 number is 6, and of the next 7 numbers is 11, then what is the sum of the 12 numbers?
a) 16 b) 17 c) 18
7. Suppose you have 100 Rs with you. A vegetable X, is 10/Kg and another Y, is 50/Kg. To buy the maximum weight, which vegetable should be bought?
a) Vegetable X b) Vegetable Y c) Half of X and Y
8. Kenna has ₹90. A pen costs ₹15 and a pencil costs ₹5. To get the **maximum total items**, what should the student buy?
a) Pens b) Pencils c) Equal number of both
9. If there are two items of 20Rs/Kg and 30Rs/Kg costs, and you buy 0.5Kg each of them, how much will it cost?
a) 70 Rs b) 25Rs c) 140Rs
10. In which type of sorting order is the rightmost element also the maximum
a) Decreasing order b) Increasing order c) None of these
11. Which list shows times arranged from earliest to latest?
a) 4:30 PM, 8:15 AM, 12:00 PM b) 12:00 PM, 8:15 AM, 4:30 PM
c) 8:15 AM, 12:00 PM, 4:30 PM d) 12:00 PM, 4:30 PM, 8:15 AM
12. Which type of block is used to trigger an event?
a) Looks b) Motion c) Event/Trigger
13. Where must the blocks be dragged to in Scratch to create scripts/programs?
a) Script Area b) Stage c) Sprite list

SECTION B

Write the correct answer in the blank.

[Data, Expensive, Right, Sorting, Information, Less, Smaller]

14. Data that has been worked upon and given meaning to is **Information**
15. Between an image and the encoded form of an image, the encoded image uses **Less** Space.

16. Decomposition means breaking a task into **Smaller** tasks.
17. Buying the most **Expensive** allows you to buy the minimum weight possible from the money.
18. In a sorted list of distinct numbers, the average of the middle part is between the average of the left and **Right** parts of the list.
19. In the field of algorithm **Sorting** is a solution to a very fundamental problem.
20. Information next stage of **Data**

SECTION C

Match the following (From the TB exercises)

SECTION D-Short Question Answers(2 Marks)

ANSWER THE FOLLOWING

21. Differentiate between data and information.

Data is unprocessed facts. For example: Steve Smith, 78 tests

Information is data that has meaning. For example, Steve Smith has played 78 tests

22. Represent the given figure in the form 0s and 1s. (Black=0 White =1)

	0	1	1	1
0	0	1	1	1
		0	1	1

1011
1111
0011
1101

23. Define decomposition.

Decomposition means breaking a task into smaller tasks. Decompose means breaking an object into smaller pieces.

24. How much money will you spend if .

Box =15 Rs

Book=20Rs

Pencil-3 Rs

- a. If you buy **1 Box, 2 Books, and 3 Pencils**, how much money will you spend? $(1 \times 15 + 2 \times 20 + 3 \times 3) = 64$
- b. If I buy **3 Pencils and 2 Books**, I will spend ₹ _____. $(3 \times 3 + 2 \times 20) = 49$

25.What is the use of motion block in scratch?

Motion blocks are used to move and control the position of a sprite (character) on the screen.

Motion block moves the sprites and changes the angle of movement of sprite according to x-axis and y-axis

26.What is the use of grow and shrink option in scratch?

The Grow and Shrink blocks are used to change the size of a sprite.

Grow: To increase the size of Sprite.

Shrink: To decrease the size of the sprite.

27. Define algorithm.

An algorithm is a step-by-step set of instructions used to solve a problem or do a task.

Example: Arranging a list of numbers in order.

SECTION E-Long Question Answers(3 Marks)

28.What are the steps to save a scratch project?

step1: Click on File ->Save as option. The Save Project dialog box appears.

Step 2: Choose the location from its left pane and type the name of the File in the File Name box.

Step 3: Click on the Save button.

29.Write an algorithm to sort a list of distinct numbers.(Refer TB pg no.s -51 & 52)

1. Start with list of numbers L and sorted list S. Here S is Empty.

2. Find the maximum from L as max.

3. Remove max from L and add to the end of S.

4. If L is not empty, go to Step 2.

5.S is the sorted list.

30.What are the steps to change the backdrop of stage?

Step 1. Click on the Choose Backdrop from Library option. The backdrop library window appears.

Step 2. Select the category of the backdrop.

Step 3. Click on the required backdrop.

Step 4. Click on OK button. The selected backdrop appears.
