

CHINIOT ISLAMIA PUBLIC SCHOOL AND COLLEGE

1ST QUARTERLY TEST

Computer Science Paper 2 - Grade 6

Name:	Section:	Roll No:
_____	_____	_____

Duration: 2 Hours

Total Marks: 100

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INSTRUCTIONS • Answer all questions. • Use a black or dark blue pen. You may use an HB pencil for any diagrams or graphs. • Write your name, centre number and candidate number in the boxes at the top of the page. • Write your answer to each question in the space provided. • Do not use an erasable pen or correction fluid. • Do not write on any bar codes. • Calculators must not be used in this paper. INFORMATION • The total mark for this paper is 50. • The number of marks for each question or part question is shown in brackets []. • No marks will be awarded for using brand names of software packages or hardware.

Q1 .

1. State Events and Sensing block of scratch and its uses.

2. Differentiate High level language and Low level language .

3. Discuss types of low level languages in detailed.

4. Your drawing has many errors. Explain how the **Eraser Tool** can be used carefully without affecting the whole design.

5. In scratch how can you change your default sprite to a new sprite of your own choice.

6. How can you customize a sprite in scratch write all steps in your answer.

7. What is the purpose of operators block in Scratch explain your answer in detail.

8. How can you converting an algorithm into a program give your answer with an example.

9. What is Paint Editor in scratch and list down any three main parts of paint editor .

10. You filled a background with yellow, but later you changed your mind to green. Explain how the **Fill Tool/Bucket Tool** works in this situation.

11. Write differences between algorithm and programming.

12. Your teacher asked you to design a flower using only the **Shape Tool**. Which shapes will you use and how will you arrange them?

13. Fatima needs images of “Mount Everest” for a school project. Explain how she can search for **copyright-free images** on the internet.

14. You typed text in MS Paint but want to change its font and color. Explain the steps using the **Text Tool**.

15. You want to draw a cartoon character in MS Paint. Explain how the **Brush Tool** would help compared to the **Pencil Tool**.

16. What do you understand about GO button and STOP button in scratch, and draw the diagram of both and identify its colour as well.

17. A student drew a rectangle but accidentally made it tilted. Describe how he can correct it without redrawing the whole picture.

18. Ahmed finds two different answers on two websites about the same question. Explain how he can decide which one is more **trustworthy**.

19. Name any three image editing software besides MS Paint and explain one feature of each.

20. Bilal finds a website that looks suspicious but offers free software. Explain how he can **check if the website is safe** before downloading.

21. How many types of computer languages are used in programming explain your answer in detail.

22. Suppose you want to create a greeting card in MS Paint. Explain how you would use **Text Tool, Fill Tool, and Save options** effectively.

23. Your school asks you to edit class photos by removing unwanted backgrounds. Which software would you choose and why?

24. Explain how the **Color Picker Tool** helps when editing a multi-colored drawing in MS Paint.

25. A student needs to design a 3D model of a cube and apply textures. Explain why Paint 3D is more suitable than MS Paint.

26. How can you upload a new background in the scratch stage area write your answer in steps.

27. You want to design a diagram with exact circles and rectangles. Explain how the **Shape Tool** ensures neatness.

28. What do you mean by block pallette and define any 5 available options in block palletes.

29. Write an algorithm to make a cup of tea .

30. What do you mean by sprite and script in scratch and what is the default sprite in scratch?

31. Name five tools in Adobe Photoshop and their purpose.

32. In MS Paint, you want to create a banner with both pictures and text. Explain the steps and tools you will use.

33. You are asked to create a colorful scenery in MS Paint. Explain how you would use the **Pencil Tool**, **Shape Tool**, and **Fill Tool** together to complete it.

34. Ali wants to find information about “Solar Energy Projects in Pakistan.” Explain how he can use **keywords** in Google to get accurate results.

35. Two types of languages are used in computer which is low level and high level so explain your answer in detail about their uses .

36. Hira wants to search for “advantages of emails” but types the whole sentence instead of keywords. Explain why using **keywords** is better.

37. Motion block is used in scratch for creating animation, state any 5 possible blocks which are available in Motion block.

38. SCRATCH is very common nowadays, how and where it is useful in daily life?

39. What is computer programming and what are the applications of programming in today's world?

40. What do you understand about SCRIPT and SPRITE in scratch. what is by default sprite in scratch.

Q2 .

1. Write step-by-step algorithm for **buying a pencil from a shop**. Explain how decision-making (if-else) is involved.

2. Ali wants to plan his daily study schedule. Explain how **computational thinking** helps him break the task into steps.

3. Khalid wants to make a sandwich. Write the **algorithm steps** and explain why the steps must be in sequence.

4. Write a step-by-step **algorithm for making tea**. Explain why this is considered an algorithm.

5. Write an algorithm: If it rains, carry an umbrella, else no umbrella. Explain how selection works here.

6. Give **three real-life examples** of relational operators ($>$,

7. A student wants to decide clothes: If **temperature** > 40 , wear light clothes, else normal clothes. Write algorithm and explain.

8. A shopkeeper gives discount if bill > 1000. Write Python if-else code for this.

9. Write a Python program that checks whether a student has **passed or failed** based on marks (≥ 40 pass).

10. Give one real-life example of **finite repetition** and one of **infinite repetition**. Explain difference.
