

# Class 5 · Computer Science Olympiad

|                       |                   |                    |                          |
|-----------------------|-------------------|--------------------|--------------------------|
| Total questions<br>50 | Total marks<br>60 | Time<br>60 minutes | Negative marking<br>None |
|-----------------------|-------------------|--------------------|--------------------------|

Each question has four options, of which only one is correct. Mark your answer on the answer sheet. The Achievers Section carries higher marks per question. The answer key with full solutions is at the end of this paper.

This is original practice material written to the Level 1 pattern. It is not a past paper and is not affiliated with SOF or any official olympiad body.

## Logical Reasoning

10 questions · 1 mark each · 10 marks

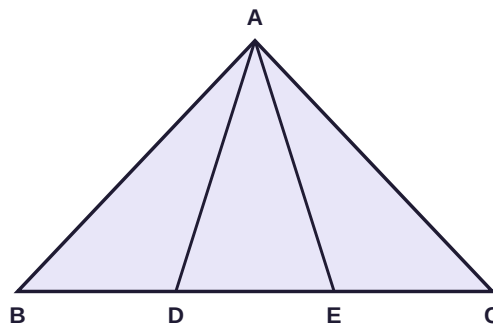
Q1. Pointing to a boy in a photograph, Meera said, "He is the son of my paternal grandfather's only son." How is the boy related to Meera?

- (A) Cousin                      (B) Brother                      (C) Uncle                      (D) Nephew

Q2. Cow : Calf :: Dog : \_\_\_\_

- (A) Kitten                      (B) Foal                      (C) Puppy                      (D) Cub

Q3. How many triangles are there in the given figure?



- (A) 5                      (B) 6                      (C) 8                      (D) 7

Q4. Find the next number in the pattern: 18, 21, 24, 27, \_\_\_\_

- (A) 27                      (B) 30                      (C) 31                      (D) 33

Q5. Find the odd one out: 6, 15, 25, 27, 33

- (A) 15                      (B) 27                      (C) 25                      (D) 6

Q6. If RAT is written as 18 - 1 - 20 using the positions of the letters in the alphabet, how is PEN written?

- (A) 14 - 5 - 16                      (B) 16 - 5 - 14                      (C) 11 - 22 - 13                      (D) 17 - 6 - 15

Q7. Riya walks 6 m towards north, turns right and walks 7 m, then turns right again and walks 6 m. How far is Riya from the starting point, and in which direction?

- (A) 7 m, East                      (B) 13 m, North                      (C) 6 m, East                      (D) 7 m, West

Q8. Three of the following four are alike and form a group. Which one does NOT belong?

- (A) Chair                      (B) Train                      (C) Car                      (D) Truck

Q9. In the first row the numbers are 4, 2 and 18. In the second row they are 8, 8 and 72. In the third row they are 2, 2 and \_\_\_\_ . The same rule applies to every row.

- (A) 8 (B) 6 (C) 5 (D) 7

Q10. A father is 16 years older than his son. The son is 19 years old now. How old will the father be after 5 years?

- (A) 41 years (B) 40 years (C) 35 years (D) 45 years

## Computer Science

30 questions · 1 mark each · 30 marks

Q11. Which of these is used to draw pictures on a computer?

- (A) A printer driver (B) A paint program  
(C) A password (D) A calculator

Q12. What must we do when we finish using a computer?

- (A) Leave it in the rain (B) Pull all the wires  
(C) Switch it off properly (D) Throw it away

Q13. What is antivirus software for?

- (A) To make the screen brighter (B) To print in colour  
(C) To type faster (D) To find and remove harmful programs

Q14. What is the @ symbol used in?

- (A) A file name (B) A password only  
(C) An email address (D) A phone number

Q15. What do we call a machine that makes paper copies of what is on the screen?

- (A) Mouse (B) Monitor (C) Scanner (D) Printer

Q16. What should we do with dirty hands before using a computer?

- (A) Rub them on the keyboard (B) Touch the screen anyway  
(C) Wash them (D) Nothing

Q17. In a spreadsheet, where a row and a column meet is called a:

- (A) Cell (B) Border (C) Chart (D) Sheet

Q18. What is the brain of the computer called?

- (A) Monitor (B) Printer (C) CPU (D) Keyboard

Q19. Which key do we press to start a new line while typing?

- (A) Enter (B) Shift (C) Tab (D) Esc

Q20. Can a computer work without electricity?

- (A) Yes, in summer (B) Yes, at night only  
(C) No (D) Yes, always

Q21. Which shortcut is normally used to save your work?

- (A) Ctrl + N (B) Ctrl + P (C) Ctrl + O (D) Ctrl + S

Q22. Which of these is an input device?

- (A) Printer                      (B) Keyboard                      (C) Speaker                      (D) Monitor

Q23. Which of these is a part you can touch — the hardware?

- (A) A website                      (B) A game program  
(C) The keyboard                      (D) A song file

Q24. What do we call the small pictures we click on the screen?

- (A) Stones                      (B) Bricks                      (C) Seeds                      (D) Icons

Q25. What is a bug in a program?

- (A) A kind of printer                      (B) A small insect inside the computer  
(C) A type of cable                      (D) A mistake that makes it behave wrongly

Q26. Which of these is a web browser?

- (A) Linux                      (B) Firefox                      (C) Windows                      (D) Android

Q27. What should you do before switching off the computer?

- (A) Close your eyes                      (B) Shake it  
(C) Save your work                      (D) Unplug it quickly

Q28. Which of these is a machine like a computer?

- (A) A towel                      (B) A tablet                      (C) A chair                      (D) A plate

Q29. What should you do with a password?

- (A) Keep it secret                      (B) Write it on the desk  
(C) Tell your whole class                      (D) Use your name as password

Q30. Which of these is a programming language?

- (A) Python                      (B) Windows                      (C) Firefox                      (D) Notepad

Q31. What do we call the pictures on a computer screen that we click to open programs?

- (A) Pages                      (B) Cables                      (C) Keys                      (D) Icons

Q32. Which of these is used to hear sound from a computer?

- (A) Screen                      (B) Mouse                      (C) Keyboard                      (D) Speaker

Q33. What do we call a set of keys pressed together to do something quickly?

- (A) A keyboard shortcut                      (B) A password  
(C) A driver                      (D) A folder

Q34. Which key is used to delete the letter to the LEFT of the cursor?

- (A) Backspace                      (B) Shift                      (C) Caps Lock                      (D) Enter

Q35. What do we use to listen to sound from a computer?

- (A) Printer                      (B) Keyboard                      (C) Mouse                      (D) Speakers

Q36. Which key has the biggest size on a keyboard?

- (A) The A key                      (B) The 1 key                      (C) The Z key                      (D) The spacebar

Q37. Which of these is used to switch a computer on?

- (A) The power button (B) The mouse wheel  
(C) The spacebar (D) The screen

Q38. What is the shortcut normally used to paste copied text?

- (A) Ctrl + V (B) Ctrl + C (C) Ctrl + Z (D) Ctrl + S

Q39. What shape is a normal computer mouse pointer usually?

- (A) An arrow (B) A square (C) A circle (D) A star

Q40. A calculator helps us to:

- (A) Do sums quickly (B) Sweep the floor  
(C) Cook food (D) Wash dishes

### AI, Robotics and Information Technology

5 questions · 1 mark each · 5 marks

Q41. What does a printer need in order to print?

- (A) Paper and ink or toner (B) Petrol  
(C) Sand (D) Water and soap

Q42. What does "AI" stand for?

- (A) Artificial Intelligence (B) Applied Information  
(C) Advanced Internet (D) Automatic Input

Q43. Which of these is an example of using technology politely?

- (A) Calling during an exam (B) Playing loud videos in class  
(C) Recording people without asking (D) Silencing your phone in class

Q44. Which of these is used to store and carry files between computers?

- (A) A speaker (B) A keyboard (C) A monitor (D) A pen drive

Q45. Which device stores photos taken on a phone?

- (A) The phone's charger (B) The phone's screen  
(C) The phone's memory (D) The phone's speaker

### Achievers Section

5 questions · 3 marks each · 15 marks

Q46. Using each of the digits 6, 1, 8, 0 exactly once, what is the smallest 4-digit number that can be formed?

- (A) 1077 (B) 1068 (C) 0168 (D) 8610

Q47. A file is 2 megabytes. Roughly how many kilobytes is that?

- (A) About 2,000 KB (B) About 20 KB  
(C) About 200 KB (D) About 2 KB

Q48. A metal spoon left in hot soup soon feels hot at the handle. Why?

- (A) The handle makes its own heat (B) Metal conducts heat along the spoon  
(C) Soup climbs up the spoon (D) Metal always stays hot

Q49. If RING is coded as ULQJ, how is ROAD coded?

- (A) URDG (B) OLXA (C) XUGJ (D) GDRU

Q50. Rahul finished the puzzle in two minutes and said it was 'to let the cat out of the bag'. What did he mean?

- (A) to reveal a secret (B) to make a mistake  
(C) to buy a pet (D) to lose something

## Answer Key

|    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|
| 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 |
| B  | C  | B  | B  | C  | B  | A  | A  | B  | B  |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| B  | C  | D  | C  | D  | C  | A  | C  | A  | C  |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| D  | B  | C  | D  | D  | B  | C  | B  | A  | A  |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| D  | D  | A  | A  | D  | D  | A  | A  | A  | A  |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |
| A  | A  | D  | D  | C  | B  | A  | B  | A  | A  |

## Solutions

Q1. (B) Meera's paternal grandfather's only son is Meera's own father, so that man's son is Meera's own sibling. The answer is Brother.

Q2. (C) The second word relates to the first in the same way Puppy relates to Dog.

Q3. (B) Every triangle has apex A and two of the 4 base points as its other corners. Choosing 2 from 4 gives 6 triangles.

Q4. (B) Each number is 3 more than the one before it, so the next is  $27 + 3 = 30$ .

Q5. (C) Every other number is a multiple of 3. 25 is not.

Q6. (B) P is letter 16 and E is letter 5 and N is letter 14, so  $PEN = 16 - 5 - 14$ .

Q7. (A) The two 6 m walks (north, then south) cancel out, leaving only the 7 m walked towards the east. So the answer is 7 m, East.

Q8. (A) Truck, Train, Car are all vehicles; Chair is not.

Q9. (B) The rule is: square the first number and add the second. Check: 4, 2 gives 18 and 8, 8 gives 72; so 2, 2 gives 6.

Q10. (B) The father is  $19 + 16 = 35$  now, so after 5 years he will be  $35 + 5 = 40$  years.

Q11. (B) A paint program lets you draw and colour on the computer.

Q12. (C) We should switch the computer off properly when we finish. The answer is Switch it off properly.

Q13. (D) Antivirus software detects and removes malicious programs. The answer is To find and remove harmful programs.

- Q14. (C) Every email address has an @ between the user name and the domain. The answer is An email address.
- Q15. (D) A printer puts what is on the screen onto paper.
- Q16. (C) Clean hands keep the keyboard and mouse clean. The answer is Wash them.
- Q17. (A) The box where a row meets a column is a cell.
- Q18. (C) The Central Processing Unit (CPU) carries out the instructions, so it is called the brain of the computer.
- Q19. (A) The Enter key moves the cursor to a new line.
- Q20. (C) A computer needs electricity to work. The answer is No.
- Q21. (D) Ctrl + S saves the current file.
- Q22. (B) A keyboard puts information INTO the computer, so it is an input device.
- Q23. (C) Hardware is the physical part you can touch, like the keyboard.
- Q24. (D) Small clickable pictures are called icons.
- Q25. (D) A bug is an error in the program. The answer is A mistake that makes it behave wrongly.
- Q26. (B) Firefox is a web browser; the others are operating systems.
- Q27. (C) Always save your work first, or it will be lost.
- Q28. (B) A tablet is a small computer.
- Q29. (A) A password must be kept secret, or anyone can use your account. The answer is Keep it secret.
- Q30. (A) Python is a programming language; the others are programs or an operating system.
- Q31. (D) Small pictures that open programs are called icons.
- Q32. (D) We hear sound through the speakers.
- Q33. (A) Keys pressed together, like Ctrl + S, are a keyboard shortcut.
- Q34. (A) Backspace removes the character to the left; the Delete key removes the one to the right.
- Q35. (D) Speakers let us hear sound from the computer.
- Q36. (D) The spacebar is the longest key on the keyboard.
- Q37. (A) The power button switches the computer on and off.
- Q38. (A) Ctrl + V pastes whatever was last copied or cut.
- Q39. (A) The mouse pointer is usually a small arrow. The answer is An arrow.
- Q40. (A) A calculator does sums quickly. The answer is Do sums quickly.
- Q41. (A) A printer needs paper and ink or toner.
- Q42. (A) AI stands for Artificial Intelligence — machines performing tasks that normally need human intelligence.
- Q43. (D) Silencing your phone shows respect for others. The answer is Silencing your phone in class.
- Q44. (D) A pen drive is a small portable storage device.
- Q45. (C) Photos are saved in the phone's memory or storage.
- Q46. (B) A 4-digit number cannot begin with 0, so the smallest possible first digit is 1. The remaining digits are then placed in increasing order: 1068.
- Q47. (A) 1 megabyte is about 1,000 kilobytes, so 2 MB is about 2,000 KB.
- Q48. (B) Metals are good conductors, so heat travels along the spoon to the handle. The answer is Metal conducts heat along the spoon.
- Q49. (A) Every letter moves 3 place(s) forward, so ROAD becomes URDG.
- Q50. (A) In this sentence 'to let the cat out of the bag' means to reveal a secret.

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