

Class 6 · Computer Science Olympiad

Total questions 50	Total marks 60	Time 60 minutes	Negative marking 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. Which one does NOT belong with the others?

- (A) Rectangle (B) Square (C) Triangle (D) Circle

Q2. Five friends A, B, C, D and E sit in a row of five seats. A sits at the extreme left end, D sits at the extreme right end, C sits exactly in the middle and B sits between A and C. Who sits in the fourth seat from the left?

- (A) E (B) C (C) D (D) B

Q3. Find the odd one out: 14, 23, 28, 35, 42

- (A) 28 (B) 35 (C) 14 (D) 23

Q4. In a row of 30 children, Tara is 13th from the left end. What is Tara's position from the right end?

- (A) 18th (B) 20th (C) 17th (D) 19th

Q5. If JAR is written as 10 - 1 - 18 using the positions of the letters in the alphabet, how is CUP written?

- (A) 24 - 6 - 11 (B) 16 - 21 - 3 (C) 4 - 22 - 17 (D) 3 - 21 - 16

Q6. Count backward in 10s: 100, 90, 80, 70, ____

- (A) 50 (B) 61 (C) 60 (D) 70

Q7. Read the statements and choose the conclusion that MUST be true.

All squares are rectangles. All rectangles have four sides.

- (A) All squares have four sides. (B) All rectangles are squares.
(C) No rectangle is a square. (D) Some squares have three sides.

Q8. Which letter comes next? A, C, E, G, ____

- (A) K (B) H (C) I (D) J

Q9. Find the next number in the pattern: 5, 12, 26, 54, ____

- (A) 111 (B) 108 (C) 112 (D) 110

Q10. Find the next number in the pattern: 2, 10, 18, 26, ____

- (A) 26 (B) 35 (C) 34 (D) 42

Computer Science

30 questions · 1 mark each · 30 marks

- Q11. Which shortcut is normally used to save your work?
(A) Ctrl + P (B) Ctrl + N (C) Ctrl + S (D) Ctrl + O
- Q12. What do we call the small blinking line that shows where you are typing?
(A) The window (B) The folder (C) The cursor (D) The icon
- Q13. What is software?
(A) The physical parts of a computer (B) The screen of a computer
(C) A set of programs that tell the computer what to do (D) The wires inside a computer
- Q14. Which shortcut is normally used to print?
(A) Ctrl + D (B) Ctrl + F (C) Ctrl + S (D) Ctrl + P
- Q15. Which of these is used to draw pictures on a computer?
(A) A password (B) A paint program
(C) A printer driver (D) A calculator
- Q16. Which number system does a computer use internally?
(A) Roman (B) Decimal (C) Octal (D) Binary
- Q17. Which of these files is most likely a song?
(A) page.html (B) song.mp3 (C) notes.txt (D) photo.jpg
- Q18. What do we use to listen to sound from a computer?
(A) Keyboard (B) Speakers (C) Mouse (D) Printer
- Q19. What will be printed? $x = 5$; $x = x + 3$; `print(x)`
(A) 5 (B) 53 (C) 3 (D) 8
- Q20. Which of these is an example of hardware?
(A) A song file (B) A printer
(C) A web page (D) An operating system
- Q21. Which key do we press to start a new line while typing?
(A) Shift (B) Esc (C) Tab (D) Enter
- Q22. What is a computer virus?
(A) A germ that makes the user ill (B) A broken wire inside the computer
(C) A type of printer (D) A harmful program that can damage files
- Q23. Which of these is NOT an input device?
(A) Microphone (B) Monitor (C) Keyboard (D) Mouse
- Q24. What do we call the pictures on a computer screen that we click to open programs?
(A) Keys (B) Pages (C) Icons (D) Cables
- Q25. What is the @ symbol used in?
(A) A password only (B) A file name
(C) An email address (D) A phone number

- Q26. What does a modem or router mainly help you do?
- (A) Print in colour (B) Connect to the internet
(C) Store photos (D) Cool the computer
- Q27. How many main buttons does a simple mouse usually have?
- (A) Two (B) One (C) Ten (D) Five
- Q28. What is a file extension such as .txt or .jpg used for?
- (A) To print the file (B) To show what kind of file it is
(C) To lock the file (D) To make the file smaller
- Q29. What does "www" appear in?
- (A) A file size (B) A website address
(C) A phone number (D) A password
- Q30. A tablet and a smartphone are both:
- (A) Computers you can carry (B) Kitchen tools
(C) Types of furniture (D) Musical instruments
- Q31. What does RAM stand for?
- (A) Rapid Access Machine (B) Run All Memory
(C) Random Access Memory (D) Read Any Memory
- Q32. Which shortcut selects everything in a document?
- (A) Ctrl + A (B) Ctrl + Q (C) Ctrl + W (D) Ctrl + E
- Q33. Which of these should you NOT do with a computer?
- (A) Switch it off properly (B) Pour water on it
(C) Keep it clean (D) Use it carefully
- Q34. Which key is used to delete the letter to the LEFT of the cursor?
- (A) Caps Lock (B) Backspace (C) Enter (D) Shift
- Q35. What does a folder do?
- (A) It holds files together in one place (B) It types files
(C) It prints files (D) It deletes files
- Q36. What should you do before switching off the computer?
- (A) Save your work (B) Unplug it quickly
(C) Close your eyes (D) Shake it
- Q37. Which key makes letters appear in CAPITAL letters while it is switched on?
- (A) Alt (B) Tab (C) Caps Lock (D) Esc
- Q38. What is antivirus software for?
- (A) To print in colour (B) To make the screen brighter
(C) To type faster (D) To find and remove harmful programs

Q39. What do we call a machine that makes paper copies of what is on the screen?

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

Q40. Which of these stores data permanently?

- (A) Hard disk (B) Cache (C) RAM (D) Clipboard

AI, Robotics and Information Technology

5 questions · 1 mark each · 5 marks

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

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

Q42. Which of these is used to store and carry files between computers?

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

Q43. A computer program that answers questions in ordinary language is an example of:

- (A) A printer driver (B) A spreadsheet
(C) A screensaver (D) Artificial Intelligence

Q44. Which of these is an example of a smart device?

- (A) A fitness band that counts steps (B) A pencil
(C) A wooden ruler (D) A paper notebook

Q45. What is a QR code used for?

- (A) To print photos (B) To charge a phone
(C) To cool the computer (D) To store information a camera can read quickly

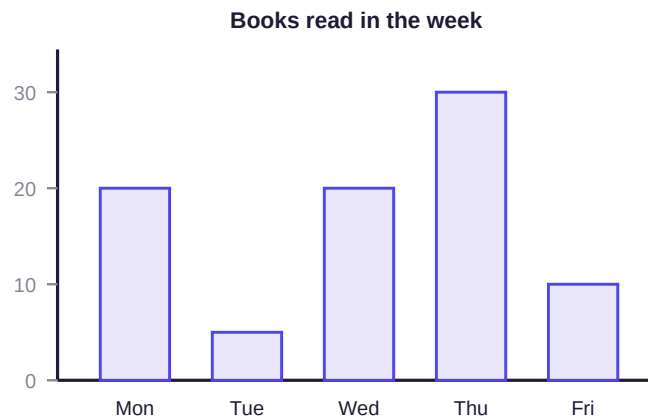
Achievers Section

5 questions · 3 marks each · 15 marks

Q46. How many numbers between 50 and 75 leave a remainder of 1 when divided by 6?

- (A) 4 (B) 6 (C) 3 (D) 5

Q47. The bar graph shows the number of books read by a class on each day of one week. How many books were read in the whole week?



- (A) 95 (B) 80 (C) 90 (D) 85

Q48. Find the next number: 1, 3, 7, 13, 21, ____

- (A) 32 (B) 33 (C) 31 (D) 29

Q49. The clock in the figure shows 2:30. What is the angle between the hour hand and the minute hand?



- (A) 90° (B) 105° (C) 135° (D) 120°

Q50. 12 taps together fill a tank in 60 minutes. How long will 10 taps of the same kind take to fill it?

- (A) 75 minutes (B) 72 minutes (C) 69 minutes (D) 60 minutes

Answer Key

1	2	3	4	5	6	7	8	9	10
D	A	D	A	D	C	A	C	D	C
11	12	13	14	15	16	17	18	19	20
C	C	C	D	B	D	B	B	D	B
21	22	23	24	25	26	27	28	29	30
D	D	B	C	C	B	A	B	B	A
31	32	33	34	35	36	37	38	39	40
C	A	B	B	A	A	C	D	D	A

41	42	43	44	45	46	47	48	49	50
C	B	D	A	D	A	D	C	B	B

Solutions

Q1. (D) Circle has no straight sides.

Q2. (A) Seat 1 = A, seat 3 = C, seat 5 = D. B must be between A and C, so B takes seat 2, and the only friend left for seat 4 is E.

Q3. (D) Every other number is a multiple of 7. 23 is not.

Q4. (A) Position from the right = total - position from the left + 1 = $30 - 13 + 1 = 18$ th.

Q5. (D) C is letter 3 and U is letter 21 and P is letter 16, so $CUP = 3 - 21 - 16$.

Q6. (C) Subtracting 10 from 70 gives 60.

Q7. (A) From "All squares are rectangles. All rectangles have four sides." it follows necessarily that all squares have four sides.

Q8. (C) Each letter moves 2 place(s) forward in the alphabet, so after G comes I.

Q9. (D) Each number is doubled and 2 is added: $54 \times 2 + 2 = 110$.

Q10. (C) Each number is 8 more than the one before it, so the next is $26 + 8 = 34$.

Q11. (C) Ctrl + S saves the current file.

Q12. (C) The blinking line where text appears is the cursor.

Q13. (C) Software is the set of instructions; hardware is the physical machine. The answer is A set of programs that tell the computer what to do.

Q14. (D) Ctrl + P opens the print dialog.

Q15. (B) A paint program lets you draw and colour on the computer.

Q16. (D) Computers work in binary, using only the digits 0 and 1.

Q17. (B) An .mp3 file holds audio. The answer is song.mp3.

Q18. (B) Speakers let us hear sound from the computer.

Q19. (D) x starts at 5, then $5 + 3 = 8$ is stored back in x, so 8 is printed.

Q20. (B) Hardware is a physical part, like a printer.

Q21. (D) The Enter key moves the cursor to a new line.

Q22. (D) A virus is a malicious program; it cannot make a person ill. The answer is A harmful program that can damage files.

Q23. (B) A monitor shows output; the other three send information in.

Q24. (C) Small pictures that open programs are called icons.

Q25. (C) Every email address has an @ between the user name and the domain. The answer is An email address.

Q26. (B) A modem or router connects your devices to the internet. The answer is Connect to the internet.

Q27. (A) A simple mouse has a left and a right button. The answer is Two.

Q28. (B) The extension tells the computer and the user what type of file it is. The answer is To show what kind of file it is.

Q29. (B) Many website addresses begin with www. The answer is A website address.

Q30. (A) Tablets and smartphones are small portable computers. The answer is Computers you can carry.

Q31. (C) RAM is Random Access Memory, the temporary working memory of a computer.

Q32. (A) Ctrl + A selects all.

Q33. (B) Water damages a computer; it must be kept dry. The answer is Pour water on it.

Q34. (B) Backspace removes the character to the left; the Delete key removes the one to the right.

Q35. (A) Folders group related files together. The answer is It holds files together in one place.

- Q36. (A) Always save your work first, or it will be lost.
- Q37. (C) Caps Lock keeps typing in capitals until it is switched off.
- Q38. (D) Antivirus software detects and removes malicious programs. The answer is To find and remove harmful programs.
- Q39. (D) A printer puts what is on the screen onto paper.
- Q40. (A) A hard disk keeps data even when the computer is switched off; RAM does not.
- Q41. (C) A printer needs paper and ink or toner.
- Q42. (B) A pen drive is a small portable storage device.
- Q43. (D) Understanding and answering ordinary language is an AI task. The answer is Artificial Intelligence.
- Q44. (A) A smart device has sensors and a small computer inside, like a fitness band. The answer is A fitness band that counts steps.
- Q45. (D) A QR code holds information that a camera can read instantly. The answer is To store information a camera can read quickly.
- Q46. (A) The numbers are 55, 61, 67, 73 — 4 of them.
- Q47. (D) $20 + 5 + 20 + 30 + 10 = 85$ books.
- Q48. (C) The gaps grow 2, 4, 6, 8, so the next gap is 10 and $21 + 10 = 31$.
- Q49. (B) The minute hand is at 180° from 12 and the hour hand at 75° from 12, so the angle between them is 105° .
- Q50. (B) One tap alone would take $12 \times 60 = 720$ minutes. With 10 taps the time is $720 / 10 = 72$ minutes.

Free practice paper from syllabax.com · more free sample papers for Classes 1–10 at syllabax.com/olympiad · not affiliated with SOF or any official olympiad body.