

Class 6 · Computer Science Olympiad

Total questions 50	Total marks 60	Time 60 minutes	Negative marking None
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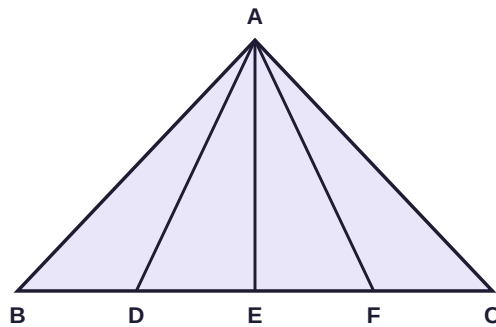
Each question has four options, of which only one is correct. Mark your answer on the answer sheet. The Achievers Section carries higher marks per question. The answer key with full solutions is at the end of this paper.

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

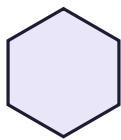
10 questions · 1 mark each · 10 marks

Q1. How many triangles are there in the given figure?

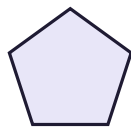


- (A) 9 (B) 10 (C) 12 (D) 11

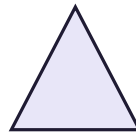
Q2. Which of these figures has exactly 3 lines of symmetry?



(A)



(B)



(C)



(D)

Q3. 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) Uncle (B) Nephew (C) Cousin (D) Brother

Q4. Which one does NOT belong with the others?

- (A) January (B) April (C) July (D) August

Q5. Which letter comes next? G, I, L, P, ____

- (A) U (B) S (C) V (D) T

Q6. Count backward in 5s: 65, 60, 55, 50, ____

- (A) 50 (B) 45 (C) 46 (D) 40

Q7. 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) C (B) D (C) B (D) E

Q8. Find the odd one out: 10, 12, 16, 28, 32

- (A) 32 (B) 16 (C) 10 (D) 28

Q9. Which word would come FIRST in a dictionary?

- (A) metal (B) melon (C) marble (D) monkey

Q10. If the 18th of a month is a Saturday, what day of the week is the 29th of the same month?

- (A) Tuesday (B) Thursday (C) Friday (D) Wednesday

Computer Science

30 questions · 1 mark each · 30 marks

Q11. Which memory loses all its contents when the computer is switched off?

- (A) RAM (B) Pen drive (C) ROM (D) Hard disk

Q12. What do we use to listen to sound from a computer?

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

Q13. What does the Delete key do?

- (A) It removes the selected item or the next character
(B) It prints the page
(C) It closes the computer
(D) It saves the file

Q14. Which of these is an input device?

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

Q15. What do we call the pictures on a computer screen that we click to open programs?

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

Q16. What does a folder do?

- (A) It deletes files
(B) It holds files together in one place
(C) It types files
(D) It prints files

Q17. Which of these is an operating system?

- (A) Chrome (B) Linux (C) Excel (D) Photoshop

Q18. Which of these is a part you can touch — the hardware?

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

Q19. What does a modem or router mainly help you do?

- (A) Cool the computer
(B) Store photos
(C) Print in colour
(D) Connect to the internet

- Q20. What is a file extension such as .txt or .jpg used for?
- (A) To print the file (B) To make the file smaller
(C) To lock the file (D) To show what kind of file it is
- Q21. Which of these can a computer NOT do by itself?
- (A) Play music (B) Add numbers
(C) Show pictures (D) Feel happy or sad
- Q22. In a spreadsheet, where a row and a column meet is called a:
- (A) Sheet (B) Chart (C) Cell (D) Border
- Q23. What is an algorithm?
- (A) A kind of computer screen (B) A type of virus
(C) A step-by-step method to solve a problem (D) A storage device
- Q24. How many main buttons does a simple mouse usually have?
- (A) One (B) Two (C) Ten (D) Five
- Q25. Which of these is an example of hardware?
- (A) A song file (B) An operating system
(C) A web page (D) A printer
- Q26. Which shortcut undoes the last action?
- (A) Ctrl + A (B) Ctrl + Z (C) Ctrl + Y (D) Ctrl + B
- Q27. If the computer does not start, what is the FIRST sensible thing to check?
- (A) Whether the mouse is new (B) Whether the screen is dusty
(C) Whether the room is cold (D) Whether it is plugged in and switched on
- Q28. What do we call a set of keys pressed together to do something quickly?
- (A) A password (B) A keyboard shortcut
(C) A driver (D) A folder
- Q29. Which number system does a computer use internally?
- (A) Binary (B) Octal (C) Decimal (D) Roman
- Q30. A tablet and a smartphone are both:
- (A) Musical instruments (B) Types of furniture
(C) Kitchen tools (D) Computers you can carry
- Q31. Which of these files is most likely a picture?
- (A) photo.jpg (B) movie.mp4 (C) notes.txt (D) song.mp3
- Q32. In a flowchart, which shape is used for a decision?
- (A) A diamond (B) A rectangle (C) An oval (D) A circle
- Q33. What do we call a machine that makes paper copies of what is on the screen?
- (A) Monitor (B) Mouse (C) Printer (D) Scanner

- Q34. Which shortcut selects everything in a document?
(A) Ctrl + E (B) Ctrl + W (C) Ctrl + Q (D) Ctrl + A
- Q35. Which of these is a web browser?
(A) Android (B) Windows (C) Firefox (D) Linux
- Q36. What do we call the small blinking line that shows where you are typing?
(A) The cursor (B) The icon (C) The window (D) The folder
- Q37. What does "www" appear in?
(A) A password (B) A website address
(C) A file size (D) A phone number
- Q38. Which is the largest unit of the four?
(A) 1 byte (B) 1 kilobyte (C) 1 megabyte (D) 1 gigabyte
- Q39. Which key do we press to start a new line while typing?
(A) Enter (B) Shift (C) Tab (D) Esc
- Q40. Which of these is NOT an input device?
(A) Keyboard (B) Microphone (C) Monitor (D) Mouse

AI, Robotics and Information Technology

5 questions · 1 mark each · 5 marks

- Q41. 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
- Q42. Which of these is a search engine?
(A) Google (B) Excel (C) Word (D) Paint
- Q43. What is a QR code used for?
(A) To charge a phone (B) To cool the computer
(C) To print photos (D) To store information a camera can read quickly
- Q44. Which of these is an example of a smart device?
(A) A paper notebook (B) A pencil
(C) A wooden ruler (D) A fitness band that counts steps
- Q45. Which device stores photos taken on a phone?
(A) The phone's speaker (B) The phone's charger
(C) The phone's memory (D) The phone's screen

Achievers Section

5 questions · 3 marks each · 15 marks

- Q46. Rahul finished the puzzle in two minutes and said it was 'to break the ice'. What did he mean?
 (A) to start a conversation (B) to feel cold
 (C) to spoil a plan (D) to go skating
- Q47. How many numbers between 50 and 70 leave a remainder of 1 when divided by 8?
 (A) 3 (B) 4 (C) 1 (D) 2
- Q48. If FISH is coded as JMWL, how is WIND coded?
 (A) HRMA (B) EQVL (C) AMRH (D) SEJZ
- Q49. Using each of the digits 0, 2, 8, 6 exactly once, what is the smallest 4-digit number that can be formed?
 (A) 0268 (B) 2068 (C) 2077 (D) 8620
- Q50. 6 taps together fill a tank in 15 minutes. How long will 2 taps of the same kind take to fill it?
 (A) 42 minutes (B) 48 minutes (C) 45 minutes (D) 15 minutes

Answer Key

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

Solutions

- Q1. (B) Every triangle has apex A and two of the 5 base points as its other corners. Choosing 2 from 5 gives 10 triangles.
- Q2. (C) Counting lines of symmetry: regular hexagon has 6, regular pentagon has 5, equilateral triangle has 3, square has 4. The answer is figure (C).
- Q3. (D) 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.
- Q4. (B) April has 30 days while the others have 31.
- Q5. (A) The gaps grow by one each time (+2, +3, +4, +5), so after P the next letter is U.
- Q6. (B) Subtracting 5 from 50 gives 45.
- Q7. (D) 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.
- Q8. (C) Every other number is a multiple of 4. 10 is not.
- Q9. (C) In alphabetical order the words run marble, melon, metal, monkey, so marble comes first.
- Q10. (D) 11 days later is 1 week(s) and 4 day(s), so the day moves 4 place(s) on from Saturday to Wednesday.

- Q11. (A) RAM is volatile: its contents disappear when the power goes off.
- Q12. (A) Speakers let us hear sound from the computer.
- Q13. (A) Delete removes the selection, or the character to the right of the cursor. The answer is It removes the selected item or the next character.
- Q14. (B) A keyboard puts information INTO the computer, so it is an input device.
- Q15. (A) Small pictures that open programs are called icons.
- Q16. (B) Folders group related files together. The answer is It holds files together in one place.
- Q17. (B) Linux is an operating system; the others are application programs.
- Q18. (C) Hardware is the physical part you can touch, like the keyboard.
- Q19. (D) A modem or router connects your devices to the internet. The answer is Connect to the internet.
- Q20. (D) 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.
- Q21. (D) A computer follows instructions; it does not have feelings. The answer is Feel happy or sad.
- Q22. (C) The box where a row meets a column is a cell.
- Q23. (C) An algorithm is an ordered set of steps that solves a problem. The answer is A step-by-step method to solve a problem.
- Q24. (B) A simple mouse has a left and a right button. The answer is Two.
- Q25. (D) Hardware is a physical part, like a printer.
- Q26. (B) Ctrl + Z undoes the last action.
- Q27. (D) Always check the power connection first. The answer is Whether it is plugged in and switched on.
- Q28. (B) Keys pressed together, like Ctrl + S, are a keyboard shortcut.
- Q29. (A) Computers work in binary, using only the digits 0 and 1.
- Q30. (D) Tablets and smartphones are small portable computers. The answer is Computers you can carry.
- Q31. (A) A .jpg file is an image; .txt is text, .mp3 is audio and .mp4 is video. The answer is photo.jpg.
- Q32. (A) A diamond marks a decision; a rectangle is a process and an oval is start or stop.
- Q33. (C) A printer puts what is on the screen onto paper.
- Q34. (D) Ctrl + A selects all.
- Q35. (C) Firefox is a web browser; the others are operating systems.
- Q36. (A) The blinking line where text appears is the cursor.
- Q37. (B) Many website addresses begin with www. The answer is A website address.
- Q38. (D) A gigabyte is larger than a megabyte, which is larger than a kilobyte, which is larger than a byte. The answer is 1 gigabyte.
- Q39. (A) The Enter key moves the cursor to a new line.
- Q40. (C) A monitor shows output; the other three send information in.
- Q41. (D) Understanding and answering ordinary language is an AI task. The answer is Artificial Intelligence.
- Q42. (A) A search engine such as Google finds pages on the web.
- Q43. (D) A QR code holds information that a camera can read instantly. The answer is To store information a camera can read quickly.
- Q44. (D) A smart device has sensors and a small computer inside, like a fitness band. The answer is A fitness band that counts steps.
- Q45. (C) Photos are saved in the phone's memory or storage.
- Q46. (A) In this sentence 'to break the ice' means to start a conversation.
- Q47. (D) The numbers are 57, 65 — 2 of them.
- Q48. (C) Every letter moves 4 place(s) forward, so WIND becomes AMRH.

Q49. (B) A 4-digit number cannot begin with 0, so the smallest possible first digit is 2. The remaining digits are then placed in increasing order: 2068.

Q50. (C) One tap alone would take $6 \times 15 = 90$ minutes. With 2 taps the time is $90 / 2 = 45$ minutes.

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