

Class 4 · Computer Science Olympiad

Total questions 35	Total marks 40	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

5 questions · 1 mark each · 5 marks

Q1. Which word would come FIRST in a dictionary?

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

Q2. Count backward in 5s: 35, 30, 25, 20, ____

- (A) 15 (B) 20 (C) 10 (D) 16

Q3. Find the next number in the pattern: 4, 11, 25, 53, ____

- (A) 106 (B) 112 (C) 107 (D) 109

Q4. If today is Saturday, what day is two days after today?

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

Q5. Which letter comes next? C, E, H, L, ____

- (A) O (B) R (C) Q (D) P

Computer Science

20 questions · 1 mark each · 20 marks

Q6. Which of these is a computer part?

- (A) Shoe (B) Pillow (C) Spoon (D) Mouse

Q7. Which of these is a computer used for?

- (A) Cutting vegetables (B) Washing clothes
(C) Cooking food (D) Doing work and playing games

Q8. Which of these is an output device?

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

Q9. What do we call a set of keys pressed together to do something quickly?

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

Q10. Can a computer work without electricity?

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

- Q11. Which of these can a computer NOT do by itself?
- (A) Play music (B) Feel happy or sad
(C) Show pictures (D) Add numbers
- Q12. What is the brain of the computer called?
- (A) Monitor (B) Printer (C) CPU (D) Keyboard
- Q13. Which of these files is most likely a picture?
- (A) photo.jpg (B) song.mp3 (C) notes.txt (D) movie.mp4
- Q14. Which of these is a machine like a computer?
- (A) A plate (B) A chair (C) A towel (D) A tablet
- Q15. What do we call a machine that makes paper copies of what is on the screen?
- (A) Printer (B) Mouse (C) Monitor (D) Scanner
- Q16. Which key makes letters appear in CAPITAL letters while it is switched on?
- (A) Caps Lock (B) Alt (C) Tab (D) Esc
- Q17. What does the Delete key do?
- (A) It closes the computer (B) It saves the file
(C) It prints the page (D) It removes the selected item or the next character
- Q18. Which of these can a computer help us do?
- (A) Wash clothes (B) Cook rice
(C) Water the garden (D) Draw a picture
- Q19. What shape is a normal computer mouse pointer usually?
- (A) A square (B) A circle (C) An arrow (D) A star
- Q20. Which of these is an input device?
- (A) Monitor (B) Speaker (C) Keyboard (D) Printer
- Q21. What is an email used for?
- (A) Playing music only (B) Sending messages over the internet
(C) Printing documents (D) Charging the battery
- Q22. Which of these is NOT a computer part?
- (A) Keyboard (B) Mouse (C) Monitor (D) Banana
- Q23. How many main buttons does a simple mouse usually have?
- (A) Five (B) One (C) Two (D) Ten
- Q24. Which key is used to delete the letter to the LEFT of the cursor?
- (A) Caps Lock (B) Shift (C) Enter (D) Backspace
- Q25. What does a folder do?
- (A) It deletes files (B) It types files
(C) It prints files (D) It holds files together in one place

Q26. What is a QR code used for?

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

Q27. Which machine keeps our food cold?

- (A) A refrigerator
- (B) A heater
- (C) A toaster
- (D) An iron

Q28. What does a scanner do?

- (A) It prints a page
- (B) It plays sound
- (C) It copies a printed page into the computer
- (D) It charges the battery

Q29. Which of these lets you talk to someone far away using the internet?

- (A) A keyboard
- (B) A scanner
- (C) A printer
- (D) A video call

Q30. What do we use to watch cartoons at home?

- (A) A fridge
- (B) A television
- (C) A fan
- (D) A washing machine

Achievers Section

5 questions · 2 marks each · 10 marks

Q31. How many numbers between 40 and 70 leave a remainder of 1 when divided by 9?

- (A) 5
- (B) 2
- (C) 3
- (D) 4

Q32. Using each of the digits 5, 0, 9, 2 exactly once, what is the smallest 4-digit number that can be formed?

- (A) 2068
- (B) 9520
- (C) 2059
- (D) 0259

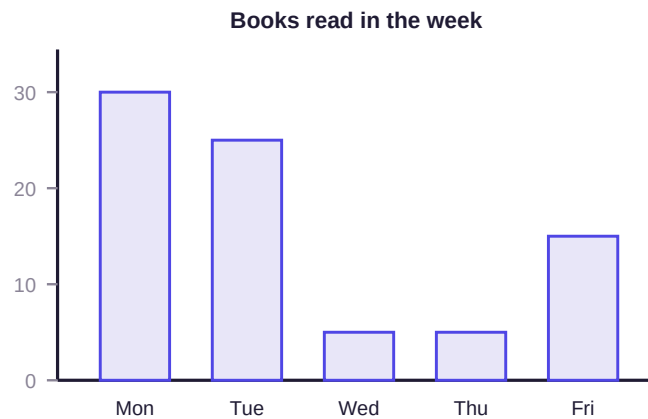
Q33. $99 + \underline{\quad} = 212$

- (A) 103
- (B) 113
- (C) 123
- (D) 212

Q34. A gardener waters a plant but keeps it in a completely dark cupboard. The plant slowly turns yellow and dies. Why?

- (A) Water is harmful to plants in the dark
- (B) The cupboard has too much oxygen
- (C) Plants need soil, not water
- (D) Without light it cannot make food by photosynthesis

Q35. 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) 75

(B) 80

(C) 90

(D) 85

Answer Key

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

Solutions

Q1. (D) In alphabetical order the words run marble, metal, monkey, museum, so marble comes first.

Q2. (A) Subtracting 5 from 20 gives 15.

Q3. (D) Each number is doubled and 3 is added: $53 \times 2 + 3 = 109$.

Q4. (B) Counting 2 day(s) on from Saturday gives Monday.

Q5. (C) The gaps grow by one each time (+2, +3, +4, +5), so after L the next letter is Q.

Q6. (D) A mouse is a part of a computer.

Q7. (D) A computer helps us do work, learn and play games. The answer is Doing work and playing games.

Q8. (D) A printer gives information OUT of the computer, so it is an output device.

Q9. (A) Keys pressed together, like Ctrl + S, are a keyboard shortcut.

Q10. (D) A computer needs electricity to work. The answer is No.

Q11. (B) A computer follows instructions; it does not have feelings. The answer is Feel happy or sad.

Q12. (C) The Central Processing Unit (CPU) carries out the instructions, so it is called the brain of the computer.

Q13. (A) A .jpg file is an image; .txt is text, .mp3 is audio and .mp4 is video. The answer is photo.jpg.

Q14. (D) A tablet is a small computer.

Q15. (A) A printer puts what is on the screen onto paper.

- Q16. (A) Caps Lock keeps typing in capitals until it is switched off.
- Q17. (D) 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.
- Q18. (D) We can draw pictures on a computer using a paint program. The answer is Draw a picture.
- Q19. (C) The mouse pointer is usually a small arrow. The answer is An arrow.
- Q20. (C) A keyboard puts information INTO the computer, so it is an input device.
- Q21. (B) Email carries written messages over the internet. The answer is Sending messages over the internet.
- Q22. (D) A banana is a fruit, not a computer part.
- Q23. (C) A simple mouse has a left and a right button. The answer is Two.
- Q24. (D) Backspace removes the character to the left; the Delete key removes the one to the right.
- Q25. (D) Folders group related files together. The answer is It holds files together in one place.
- Q26. (B) A QR code holds information that a camera can read instantly. The answer is To store information a camera can read quickly.
- Q27. (A) A refrigerator keeps food cold.
- Q28. (C) A scanner turns a paper document into a digital image, so it is an input device. The answer is It copies a printed page into the computer.
- Q29. (D) A video call carries picture and sound over the internet.
- Q30. (B) We watch programmes on a television.
- Q31. (C) The numbers are 46, 55, 64 — 3 of them.
- Q32. (C) 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: 2059.
- Q33. (B) The missing number is $212 - 99 = 113$.
- Q34. (D) Photosynthesis needs light. In the dark the plant cannot make food, so it dies even though it has water. The answer is Without light it cannot make food by photosynthesis.
- Q35. (B) $30 + 25 + 5 + 5 + 15 = 80$ books.

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