

Class 3 · 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

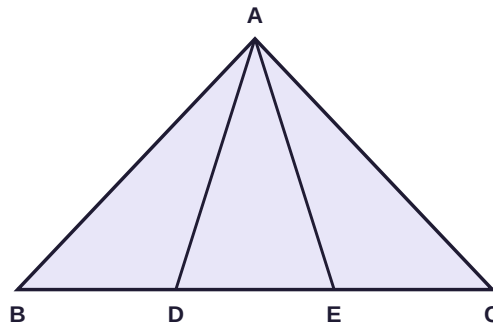
Q1. Count backward in 2s: 28, 26, 24, 22, ____

- (A) 20 (B) 18 (C) 22 (D) 21

Q2. Look at the pattern: square, triangle, square, triangle, square, ____ . Which shape comes next?

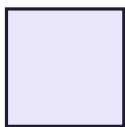
- (A) oval (B) square (C) hexagon (D) triangle

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

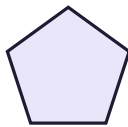


- (A) 6 (B) 8 (C) 7 (D) 5

Q4. Which of these figures has exactly 4 lines of symmetry?



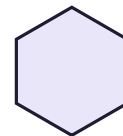
(A)



(B)



(C)



(D)

Q5. $5 : 25 :: 8 : \underline{\hspace{1cm}}$

- (A) 16 (B) 49 (C) 64 (D) 81

Computer Science

20 questions · 1 mark each · 20 marks

Q6. Which of these is used to switch a computer on?

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

- Q7. What do we call the small pictures we click on the screen?
(A) Icons (B) Bricks (C) Seeds (D) Stones
- Q8. Which key makes letters appear in CAPITAL letters while it is switched on?
(A) Tab (B) Caps Lock (C) Esc (D) Alt
- Q9. What should you do before switching off the computer?
(A) Close your eyes (B) Unplug it quickly
(C) Shake it (D) Save your work
- Q10. What does a folder do?
(A) It holds files together in one place (B) It deletes files
(C) It prints files (D) It types files
- Q11. Which key has the biggest size on a keyboard?
(A) The 1 key (B) The Z key (C) The spacebar (D) The A key
- Q12. Which device is used to point and click on the screen?
(A) Mouse (B) Printer (C) Speaker (D) Monitor
- Q13. Which key do we press to start a new line while typing?
(A) Shift (B) Enter (C) Esc (D) Tab
- Q14. What is the desktop on a computer?
(A) The main screen you see after starting up (B) A storage box
(C) A type of printer (D) A wooden table
- Q15. What must we do when we finish using a computer?
(A) Switch it off properly (B) Leave it in the rain
(C) Throw it away (D) Pull all the wires
- Q16. Which of these is an output device?
(A) Mouse (B) Keyboard (C) Scanner (D) Printer
- Q17. What do we call a machine that makes paper copies of what is on the screen?
(A) Monitor (B) Scanner (C) Mouse (D) Printer
- Q18. What does "www" appear in?
(A) A file size (B) A password
(C) A website address (D) A phone number
- Q19. Which of these is used to hear sound from a computer?
(A) Keyboard (B) Speaker (C) Screen (D) Mouse
- Q20. Which of these is an input device?
(A) Keyboard (B) Printer (C) Monitor (D) Speaker
- Q21. Which of these is a computer used for?
(A) Cooking food (B) Cutting vegetables
(C) Washing clothes (D) Doing work and playing games

Q22. What should you do with a password?

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

Q23. What should we do with dirty hands before using a computer?

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

Q24. What is software?

- (A) A set of programs that tell the computer what to do
- (B) The screen of a computer
- (C) The physical parts of a computer
- (D) The wires inside a computer

Q25. If the computer does not start, what is the FIRST sensible thing to check?

- (A) Whether the mouse is new
- (B) Whether it is plugged in and switched on
- (C) Whether the room is cold
- (D) Whether the screen is dusty

Information Technology

5 questions · 1 mark each · 5 marks

Q26. Which of these can take a photograph?

- (A) A shoe
- (B) A spoon
- (C) A camera
- (D) A book

Q27. Which of these lets you talk to someone far away using the internet?

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

Q28. What does a scanner do?

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

Q29. Which of these can we use to call someone far away?

- (A) A pencil
- (B) A telephone
- (C) A hammer
- (D) A plate

Q30. Which of these is an example of using technology politely?

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

Achievers Section

5 questions · 2 marks each · 10 marks

Q31. Choose the correct form: "The ____ playing in the park." (use the plural of 'tooth')

- (A) tooth are
- (B) teeth is
- (C) tooths are
- (D) teeth are

Q32. Using each of the digits 0, 5, 9, 6 exactly once, what is the smallest 4-digit number that can be formed?

- (A) 0569
- (B) 9650
- (C) 5078
- (D) 5069

Q33. A country's flag has saffron on top, white in the middle with a blue wheel, and green at the bottom. Which country is it?

- (A) Italy
- (B) Ireland
- (C) India
- (D) Niger

Q34. $117 + \underline{\quad} = 235$

(A) 128

(B) 118

(C) 235

(D) 108

Q35. There are 3 boxes with 7 laddoos in each box. If 7 laddoos are eaten, how many are left?

(A) 11

(B) 17

(C) 21

(D) 14

Answer Key

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

Solutions

Q1. (A) Subtracting 2 from 22 gives 20.

Q2. (D) The pattern repeats square then triangle over and over, so after square comes triangle.

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

Q4. (A) Counting lines of symmetry: square has 4, regular pentagon has 5, rectangle has 2, regular hexagon has 6. The answer is figure (A).

Q5. (C) The second number is the first multiplied by itself: $5 \times 5 = 25$, so $8 \times 8 = 64$.

Q6. (A) The power button switches the computer on and off.

Q7. (A) Small clickable pictures are called icons.

Q8. (B) Caps Lock keeps typing in capitals until it is switched off.

Q9. (D) Always save your work first, or it will be lost.

Q10. (A) Folders group related files together. The answer is It holds files together in one place.

Q11. (C) The spacebar is the longest key on the keyboard.

Q12. (A) The mouse moves the pointer on the screen and is used to click.

Q13. (B) The Enter key moves the cursor to a new line.

Q14. (A) The desktop is the main working screen with icons on it. The answer is The main screen you see after starting up.

Q15. (A) We should switch the computer off properly when we finish. The answer is Switch it off properly.

Q16. (D) A printer gives information OUT of the computer, so it is an output device.

Q17. (D) A printer puts what is on the screen onto paper.

Q18. (C) Many website addresses begin with www. The answer is A website address.

Q19. (B) We hear sound through the speakers.

Q20. (A) A keyboard puts information INTO the computer, so it is an input device.

Q21. (D) A computer helps us do work, learn and play games. The answer is Doing work and playing games.

Q22. (B) A password must be kept secret, or anyone can use your account. The answer is Keep it secret.

- Q23. (D) Clean hands keep the keyboard and mouse clean. The answer is Wash them.
- Q24. (A) 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.
- Q25. (B) Always check the power connection first. The answer is Whether it is plugged in and switched on.
- Q26. (C) A camera takes photographs.
- Q27. (B) A video call carries picture and sound over the internet.
- 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. (B) A telephone lets us talk to people far away.
- Q30. (A) Silencing your phone shows respect for others. The answer is Silencing your phone in class.
- Q31. (D) The plural of 'tooth' is 'teeth', and a plural subject takes 'are', so the answer is "teeth are".
- Q32. (D) A 4-digit number cannot begin with 0, so the smallest possible first digit is 5. The remaining digits are then placed in increasing order: 5069.
- Q33. (C) That describes the Indian tricolour with the Ashoka Chakra in the white band.
- Q34. (B) The missing number is $235 - 117 = 118$.
- Q35. (D) $3 \times 7 = 21$ laddoos in all, and $21 - 7 = 14$ are left.

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