STUDENT COPY · SET A

# Class 8 · Computer Science Olympiad

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

Name: _____ Class/Section: _____ Roll no: _____

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. Your teacher has the answers.
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.

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## Logical Reasoning

10 questions · 1 mark each · 10 marks

Q1. 4 : 16 :: 9 : ___

(A) 18 (B) 64 (C) 81 (D) 100

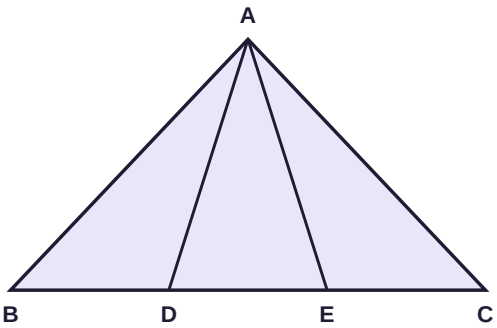
Q2. In a certain code FAN is written as HCP. How is MAP written in that code?

(A) PDS (B) RCO (C) OCR (D) KYN

Q3. In a row of 36 children, Ravi is 6th from the left end. What is Ravi's position from the right end?

(A) 30th (B) 31st (C) 33rd (D) 32nd

Q4. How many triangles are there in the given figure?




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

Q5. Pointing to a boy in a photograph, Rahul said, "This boy is not me, but he is the son of my paternal grandfather's only son." How is the boy related to Rahul?

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

Q6. Find the next number in the pattern: 3, 8, 18, 38, ___

(A) 80 (B) 76 (C) 78 (D) 79

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) E (D) B

Q8. Which one does NOT belong with the others?

(A) Wood (B) Gold (C) Copper (D) Silver

Q9. Which letter comes next? F, H, K, O, ___

(A) R (B) S (C) U (D) T

Q10. If the 15th of a month is a Thursday, what day of the week is the 28th of the same month?

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

## Computer Science

30 questions · 1 mark each · 30 marks

Q11. What is an email used for?

(A) Printing documents (B) Sending messages over the internet

(C) Charging the battery (D) Playing music only

Q12. Which of these is an operating system?

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

Q13. What does "debugging" mean?

(A) Printing the program (B) Renaming the program

(C) Finding and fixing errors in a program (D) Deleting the program

Q14. Which is the largest unit of the four?

(A) 1 gigabyte (B) 1 kilobyte (C) 1 megabyte (D) 1 byte

Q15. Which of these is an example of hardware?

(A) An operating system (B) A printer

(C) A web page (D) A song file

Q16. How many bits make one byte?

(A) 16 (B) 4 (C) 8 (D) 32

Q17. Which of these files is most likely a song?

(A) page.html (B) song.mp3 (C) notes.txt (D) photo.jpg

Q18. Which number system does a computer use internally?

(A) Decimal (B) Roman (C) Binary (D) Octal

Q19. Which shortcut selects everything in a document?

(A) Ctrl + A (B) Ctrl + W (C) Ctrl + Q (D) Ctrl + E

Q20. Which program would you use to type and format a letter?

(A) A word processor (B) A spreadsheet

(C) A web browser (D) A paint program

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

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

Q22. Which of these is a web browser?

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

Q23. What should you do with a password?

(A) Tell your whole class (B) Use your name as password

(C) Write it on the desk (D) Keep it secret

Q24. What will be printed? x = 5; x = x + 3; print(x)

(A) 53 (B) 3 (C) 5 (D) 8

Q25. Which shortcut is normally used to print?

(A) Ctrl + P (B) Ctrl + F (C) Ctrl + D (D) Ctrl + S

Q26. 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 show what kind of file it is (D) To lock the file

Q27. Which part of a computer carries out calculations?

(A) The printer (B) The CPU (C) The keyboard (D) The monitor

Q28. Which memory loses all its contents when the computer is switched off?

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

Q29. What is the output of the instruction: print(2 + 3 * 4)?

(A) 9 (B) 20 (C) 24 (D) 14

Q30. In programming, what is a loop used for?

(A) To print a document (B) To stop the program

(C) To delete a file (D) To repeat a set of instructions

Q31. 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

Q32. What does it mean to "download" a file?

(A) To delete it from your device (B) To copy it from the internet to your device

(C) To print it on paper (D) To send it to a friend

Q33. In a spreadsheet, where a row and a column meet is called a:

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

Q34. What is software?

(A) The screen of a computer (B) A set of programs that tell the computer what to do

(C) The physical parts of a computer (D) The wires inside a computer

Q35. What does a modem or router mainly help you do?

(A) Connect to the internet (B) Cool the computer

(C) Store photos (D) Print in colour

Q36. What is a computer virus?

(A) A broken wire inside the computer (B) A harmful program that can damage files

(C) A germ that makes the user ill (D) A type of printer

Q37. Which of these makes a computer run slowly and can harm files?

(A) A folder (B) A virus (C) A shortcut (D) A wallpaper

Q38. What is the brain of the computer called?

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

Q39. What does CPU stand for?

(A) Central Processing Unit (B) Control Panel Unit

(C) Computer Printing Unit (D) Central Program Utility

Q40. Where do we use the @ symbol most often?

(A) A password only (B) An email address

(C) A file name (D) A phone number

## AI, Robotics and Information Technology

5 questions · 1 mark each · 5 marks

Q41. 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

Q42. A machine that learns from examples rather than being told every rule is using:

(A) Machine learning (B) Scanning

(C) Printing (D) Word processing

Q43. What does a printer usually need in order to print?

(A) Petrol (B) Sand

(C) Water and soap (D) Paper and ink or toner

Q44. 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

Q45. Which of these lets you talk to someone far away using the internet?

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

## Achievers Section

5 questions · 3 marks each · 15 marks

Q46. A website address begins with https:// instead of http://. What does the extra "s" mean?

(A) The connection is secure and encrypted
(B) The site is free
(C) The site is in English
(D) The site is faster

Q47. You select a word, press Ctrl + C, then press Ctrl + V twice. What happens?

(A) The text is deleted twice
(B) The copied text is pasted two times
(C) The text is cut then pasted
(D) Nothing happens the second time

Q48. The binary number 1000 equals which decimal number?

(A) 8 (B) 4 (C) 16 (D) 1000

Q49. A program repeats "print star" 5 times inside a loop. How many stars appear?

(A) 5 (B) 0 (C) 10 (D) 1

Q50. A file is 2 megabytes. Roughly how many kilobytes is that?

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

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