STUDENT COPY · SET A

Class 10 · 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.
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Logical Reasoning

10 questions · 1 mark each · 10 marks

Q1. Pointing to a boy in a photograph, Anjali said, “This boy is not me, but he is the son of my paternal grandfather’s only son.” How is the boy related to Anjali?

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

Q2. Which of these figures has exactly 5 lines of symmetry?



(A) (B) (C) (D)

Q3. If the 12th of a month is a Monday, what day of the week is the 25th of the same month?

(A) Tuesday (B) Monday (C) Sunday (D) Saturday

Q4. Three of the following four are alike and form a group. Which one does NOT belong?

(A) Guava (B) Potato (C) Mango (D) Apple

Q5. If DOG is written as 4 - 15 - 7 using the positions of the letters in the alphabet, how is BAG written?

(A) 3 - 2 - 8 (B) 7 - 1 - 2 (C) 2 - 1 - 7 (D) 25 - 26 - 20

Q6. In a class, 15 students play cricket, 22 play football and 9 play both games. Every student plays at least one of the two. How many students are there in the class?

(A) 19 (B) 37 (C) 29 (D) 28

Q7. Sima walks 10 m north, then 9 m east, then 8 m south. Where is Sima now, relative to the starting point?

(A) 3 m north and 9 m east (B) 2 m north and 10 m east

(C) 2 m north and 9 m east (D) 10 m north and 9 m east

Q8. Read the statements and choose the conclusion that MUST be true.
All roses are flowers. All flowers need water.

(A) Some roses do not need water.
(B) Only roses need water.
(C) All flowers are roses.
(D) All roses need water.

Q9. 4 : 16 :: 13 : ___

(A) 169 (B) 26 (C) 196 (D) 144

Q10. Find the next number in the pattern: 2, 5, 11, 23, ___

(A) 45 (B) 46 (C) 47 (D) 48

Computer Science

30 questions · 1 mark each · 30 marks

Q11. What is antivirus software for?

(A) To make the screen brighter
(B) To type faster
(C) To print in colour
(D) To find and remove harmful programs

Q12. Which program is best for adding up a column of numbers automatically?

(A) A word processor
(B) A music player
(C) A spreadsheet
(D) A paint program

Q13. In a spreadsheet, what usually appears at the start of a formula?

(A) An equals sign
(B) A question mark
(C) A hyphen
(D) A full stop

Q14. Which number system does a computer use internally?

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

Q15. In programming, what does a variable do?

(A) It stores a value that can change
(B) It deletes a file
(C) It prints the screen
(D) It connects to wifi

Q16. In a flowchart, which shape is used for a decision?

(A) A circle (B) An oval (C) A diamond (D) A rectangle

Q17. What is a bug in a program?

(A) A mistake that makes it behave wrongly
(B) A small insect inside the computer
(C) A kind of printer
(D) A type of cable

Q18. Which shortcut undoes the last action?

(A) Ctrl + B (B) Ctrl + Y (C) Ctrl + A (D) Ctrl + Z

Q19. Which part of a computer carries out calculations?

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

Q20. Which of these is a programming language?

(A) Firefox (B) Notepad (C) Python (D) Windows

Q21. Which of these is an example of hardware?

(A) A web page (B) An operating system

(C) A song file (D) A printer

Q22. How many bits make one byte?

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

Q23. In a spreadsheet, where a row and a column meet is called a:

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

Q24. Which of these keeps data even when the computer is switched off?

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

Q25. Which of these files is most likely a song?

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

Q26. Which is the largest unit of the four?

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

Q27. Which shortcut is normally used to save your work?

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

Q28. What is a computer virus?

(A) A harmful program that can damage files (B) A germ that makes the user ill

(C) A broken wire inside the computer (D) A type of printer

Q29. Which shortcut is normally used to print?

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

Q30. What is an algorithm?

(A) A step-by-step method to solve a problem (B) A type of virus

(C) A kind of computer screen (D) A storage device

Q31. What is the output of the instruction: print(2 + 3 * 4)?

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

Q32. What is the binary number 101 in decimal?

(A) 6 (B) 9 (C) 5 (D) 3

Q33. What does "debugging" mean?

(A) Finding and fixing errors in a program (B) Deleting the program

(C) Printing the program (D) Renaming the program

Q34. What will be printed? x = 5; x = x + 3; print(x)

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

Q35. What does CPU stand for?

(A) Computer Printing Unit (B) Control Panel Unit

(C) Central Program Utility (D) Central Processing Unit

Q36. What does RAM stand for?

(A) Rapid Access Machine
(B) Read Any Memory
(C) Random Access Memory
(D) Run All Memory

Q37. Which shortcut selects everything in a document?

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

Q38. What does WWW stand for?

(A) World Wired Web
(B) World Wide Web
(C) Web World Wide
(D) Wide World Web

Q39. Which of these makes a computer run slowly and can harm files?

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

Q40. What is a file extension such as .txt or .jpg used for?

(A) To show what kind of file it is
(B) To print the file
(C) To make the file smaller
(D) To lock the file

AI, Robotics and Information Technology

5 questions · 1 mark each · 5 marks

Q41. What should you do if a stranger online asks for your home address?

(A) Refuse and tell a trusted adult
(B) Post it publicly
(C) Share your school name instead
(D) Send it politely

Q42. You get an email asking for your password. What is the safest thing to do?

(A) Reply with the password
(B) Post it online
(C) Ignore it and tell an adult
(D) Send it to a friend first

Q43. Which of these is used to store and carry files between computers?

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

Q44. 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

Q45. A machine that learns from examples rather than being told every rule is using:

(A) Scanning
(B) Word processing
(C) Machine learning
(D) Printing

Achievers Section

5 questions · 3 marks each · 15 marks

Q46. 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

Q47. Why is it safer to switch off a computer using the Shut Down option rather than pulling out the plug?

(A) It saves electricity only

(B) It closes files properly so data is not lost

(C) It cleans the screen

(D) It makes the computer faster next time

Q48. A file is 2 megabytes. Roughly how many kilobytes is that?

(A) About 20 KB

(B) About 2,000 KB

(C) About 2 KB

(D) About 200 KB

Q49. 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 in English

(C) The site is free

(D) The site is faster

Q50. A program repeats "print star" 5 times inside a loop. How many stars appear?

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

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