STUDENT COPY · SET B

Class 7 · 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. Find the next number in the pattern: 4, 10, 22, 46, ___

(A) 94 (B) 95 (C) 96 (D) 92

Q2. In a class, 22 students play cricket, 16 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) 20 (B) 30 (C) 29 (D) 38

Q3. 7 : 49 :: 3 : ___

(A) 16 (B) 9 (C) 6 (D) 4

Q4. If the 12th of a month is a Sunday, what day of the week is the 29th of the same month?

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

Q5. In a certain code JAR is written as LCT. How is SUN written in that code?

(A) UWP (B) PWU (C) VXQ (D) QSL

Q6. Which letter comes next? B, D, G, K, ___

(A) N (B) P (C) Q (D) O

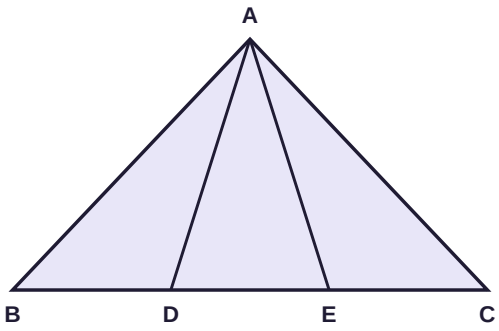
Q7. Pointing to a boy in a photograph, Vikram said, “This boy is not me, but he is the son of my paternal grandfather’s only son.” How is the boy related to Vikram?

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

Q8. Which letter comes next? F, H, J, L, ___

(A) N (B) M (C) O (D) P

Q9. How many triangles are there in the given figure?



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

Q10. All but one of these numbers are multiples of the same number. Find the one that is not: 36, 45, 54, 63, 77

(A) 54 (B) 36 (C) 45 (D) 77

Computer Science

30 questions · 1 mark each · 30 marks

Q11. What does CPU stand for?

(A) Central Program Utility (B) Control Panel Unit

(C) Computer Printing Unit (D) Central Processing Unit

Q12. Two files in one folder are named map.png and map.docx. Why are both allowed?

(A) Their base names are different (B) Their file sizes are different

(C) Their icons are different (D) Their extensions are different

Q13. Which of these is a web browser?

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

Q14. Neha wants a school logo to appear in the same place on every slide of a presentation. Which feature is best?

(A) Slide Master (B) Notes Page

(C) Animation Pane (D) Slide Sorter

Q15. What is the output of the instruction: print(2 + 3 * 4)?

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

Q16. Which situation shows the operating system, not an application program, doing the main work?

(A) Making text bold in Word (B) Adding marks in Excel

(C) Giving CPU time to open apps (D) Drawing a line in Paint

Q17. In HTML, what will a browser display as clickable text for School map?

(A) School map (B) href (C) map.html (D) a

Q18. A flowchart must choose: if marks are 33 or more, show PASS; otherwise FAIL. Which symbol should hold the test 'marks >= 33'?

(A) Rectangle (B) Diamond

(C) Oval (D) Parallelogram

Q19. What is the binary number 101 in decimal?

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

Q20. Rohan records his voice, saves the file, and plays it later. Which role order matches microphone, pen drive, speakers?

(A) Input, output, storage (B) Output, input, storage

(C) Storage, output, input (D) Input, storage, output

Q21. Which shortcut undoes the last action?

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

Q22. In Excel, A1 has 8 and A2 has 3. What will =A1-A2*2 show?

(A) 30 (B) -10 (C) 2 (D) 10

Q23. Which of these files is most likely a song?

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

Q24. Sia gets an email link saying, 'Enter your password to keep your account open.' What should she do first?

(A) Forward it to friends (B) Do not click; tell an adult

(C) Reply with her password (D) Open link and check

Q25. What is a bug in a program?

(A) A small insect inside the computer (B) A mistake that makes it behave wrongly

(C) A type of cable (D) A kind of printer

Q26. Four bits have place values 8, 4, 2, 1. For binary 1010, which place values are added?

(A) 8 and 2 (B) 4 and 1 (C) 4 and 2 (D) 8 and 1

Q27. Where do we use the @ symbol most often?

(A) A password only (B) A file name

(C) An email address (D) A phone number

Q28. Which shortcut selects everything in a document?

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

Q29. Ravi wrote 'teh' many times in Word. Which tool can change every 'teh' to 'the' in one operation?

(A) Format Painter (B) WordArt

(C) Find and Replace (D) AutoFit

Q30. What does WWW stand for?

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

(C) World Wide Web (D) Wide World Web

Q31. What do we call a set of keys pressed together to do something quickly?

(A) A folder (B) A driver

(C) A password (D) A keyboard shortcut

Q32. What is an algorithm?

(A) A kind of computer screen
(B) A step-by-step method to solve a problem
(C) A type of virus
(D) A storage device

Q33. What will be printed? x = 5; x = x + 3; print(x)

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

Q34. Which of these is an operating system?

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

Q35. What does a folder do?

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

Q36. What does RAM stand for?

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

Q37. Which of these is a storage device?

(A) Speaker (B) Monitor (C) Hard disk (D) Mouse

Q38. In a spreadsheet, what usually appears at the start of a formula?

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

Q39. What is a computer virus?

(A) A germ that makes the user ill
(B) A harmful program that can damage files
(C) A broken wire inside the computer
(D) A type of printer

Q40. What does "debugging" mean?

(A) Finding and fixing errors in a program
(B) Deleting the program
(C) Printing the program
(D) Renaming the program

AI, Robotics and Information Technology

5 questions · 1 mark each · 5 marks

Q41. What does "AI" stand for?

(A) Applied Information
(B) Advanced Internet
(C) Automatic Input
(D) Artificial Intelligence

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

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

Q43. What does a scanner do?

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

Q44. Which of these is an example of a robot being useful in a factory?

(A) Sleeping at night
(B) Dreaming about work
(C) Eating lunch with workers
(D) Assembling parts on a production line

Q45. Which device stores photos taken on a phone?

(A) The phone's screen
(B) The phone's memory
(C) The phone's charger
(D) The phone's speaker

Achievers Section

5 questions · 3 marks each · 15 marks

Q46. While typing, Iqbal sees 'rainn|' with the cursor at | after the last n. He wants 'rain' without retyping the word. Which key fixes it directly?

(A) Backspace (B) Enter (C) Spacebar (D) Delete

Q47. In a folder, Ravi needs to select file 2 and file 5, but not files 3 and 4. What should he do?

(A) Double-click file 2 and 5
(B) Hold Shift and click file 5
(C) Hold Ctrl and click each file
(D) Drag the mouse across files

Q48. A pop-up asks Kavya for her school password to get free game coins. What should she do first?

(A) Close it and tell an adult
(B) Type the password quickly
(C) Save it in the pop-up
(D) Send it to a friend

Q49. In MS Paint, Meera drew a tree too close to the house. She wants to move only the tree, keeping the house unchanged. Which tool should she use first?

(A) Magnifier tool
(B) Fill with colour tool
(C) Select tool
(D) Eraser tool

Q50. Why is it safer to switch off a computer using the Shut Down option rather than pulling out the plug?

(A) It closes files properly so data is not lost
(B) It cleans the screen
(C) It makes the computer faster next time
(D) It saves electricity only

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