STUDENT COPY · SET B

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. Which one does NOT belong with the others?

(A) Pentagon (B) Triangle (C) Square (D) Circle

Q2. In the first row the numbers are 8, 5 and 42. In the second row they are 7, 2 and 16. In the third row they are 3, 6 and ___ . The same rule applies to every row.

(A) 21 (B) 20 (C) 19 (D) 22

Q3. If JAR is written as 10 - 1 - 18 using the positions of the letters in the alphabet, how is SUN written?

(A) 19 - 21 - 14 (B) 8 - 6 - 13 (C) 14 - 21 - 19 (D) 20 - 22 - 15

Q4. All but one of these numbers are multiples of the same number. Find the one that is not: 28, 49, 56, 63, 75

(A) 63 (B) 28 (C) 56 (D) 75

Q5. Which word would come FIRST in a dictionary?

(A) melon (B) metal (C) minute (D) museum

Q6. 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) E (B) B (C) C (D) D

Q7. In a queue, Farah is 9th from the front and 7th from the back. How many people are in the queue altogether?

(A) 15 (B) 16 (C) 17 (D) 14

Q8. Sima walks 9 m north, then 9 m east, then 3 m south. Where is Sima now, relative to the starting point?

(A) 6 m north and 10 m east (B) 6 m north and 9 m east

(C) 9 m north and 9 m east (D) 7 m north and 9 m east

Q9. If the 18th of a month is a Tuesday, what day of the week is the 27th of the same month?

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

Q10. Read the statements and choose the conclusion that MUST be true.
All metals conduct electricity. Copper is a metal.

(A) All conductors are copper. (B) Copper does not conduct electricity.

(C) Copper conducts electricity. (D) Only copper is a metal.

Computer Science

30 questions · 1 mark each · 30 marks

Q11. In Excel, cell B2 has =A2*$E$1. It is copied to B3. What will the formula become?

(A) =B3*$E$1 (B) =A2*$E$1 (C) =A3*$E$2 (D) =A3*$E$1

Q12. Which decimal number has the same value as the binary number 101101?

(A) 44 (B) 53 (C) 45 (D) 41

Q13. Which of these is a web browser?

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

Q14. A page has Note. What is the main error in this HTML?

(A) The i tag cannot be nested (B) Closing tags need capitals

(C) The b tag belongs in head (D) Tags are not properly nested

Q15. Which of these is the safest password?

(A) 123456 (B) password

(C) Ra1n@Kolkata#27 (D) myname

Q16. Ravi wants the school logo to appear on every slide and be editable from one place. Which PowerPoint feature is best?

(A) Notes Page (B) Animation Pane

(C) Slide Sorter (D) Slide Master

Q17. The formula =$B$2*C2 is copied from D2 to D3. Which reference still points to the original cell B2?

(A) $B$2 (B) $C$2 (C) D3 (D) C2

Q18. What does a modem or router mainly help you do?

(A) Cool the computer (B) Print in colour

(C) Store photos (D) Connect to the internet

Q19. Anu moves a folder from Desktop to Documents on the same computer. What definitely changes for the files inside?

(A) File contents (B) Folder path

(C) File format (D) File size

Q20. Which of these files is most likely a picture?

(A) movie.mp4 (B) photo.jpg (C) notes.txt (D) song.mp3

Q21. Music plays while a document is being typed because the OS gives processor time to different programs. Which OS work is this?

(A) File compression (B) Disk formatting

(C) Screen calibration (D) Process management

Q22. What should you do with a password?

(A) Write it on the desk (B) Use your name as password

(C) Keep it secret (D) Tell your whole class

Q23. Aditi wants all chapter headings to look the same, and later change all of them by editing one setting. Which feature should she use?

(A) Word count (B) Clipboard (C) Styles (D) Page margins

Q24. A flowchart tests N mod 2 = 0; if true prints EVEN, else ODD. What prints for N = 0?

(A) EVEN (B) ERROR (C) No output (D) ODD

Q25. A school logo must appear in the same corner on every slide of a presentation. Which feature is best for this?

(A) Slide Sorter (B) Animation Pane

(C) Speaker Notes (D) Slide Master

Q26. In HTML, what is wrong with Top three teams?

(A) Bold tag is not allowed (B) Italic tag needs a number

(C) Tags are wrongly nested (D) Text cannot be between tags

Q27. In programming, what is a loop used for?

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

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

Q28. In Excel, C1 has =A1*$B$1. It is copied to C2. Which formula should appear in C2?

(A) =A2*$B$1 (B) =A2*$B$2 (C) =A1*$B$1 (D) =A1*$B$2

Q29. In a sheet, C2 has =B2*$E$1. If copied to C3, which formula will Excel normally make?

(A) =C3*$E$1 (B) =B2*$E$2 (C) =B3*$E$2 (D) =B3*$E$1

Q30. Which memory loses all its contents when the computer is switched off?

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

Q31. An algorithm sets S=0, then for N=1 to 5 adds N to S only when N is even. What value is printed?

(A) 9 (B) 6 (C) 5 (D) 15

Q32. What is the shortcut normally used to copy selected text?

(A) Ctrl + C (B) Ctrl + X (C) Ctrl + P (D) Ctrl + V

Q33. An email says your account will close unless you enter your password through a link. What should you do first?

(A) Open it in private mode (B) Report it without clicking

(C) Forward it to friends (D) Reply with your password

Q34. Which HTML line correctly makes the word Save both bold and a link to notes.html?

(A) <a>Save
(B) Save
(C) Save
(D) Save

Q35. What is the shortcut normally used to paste copied text?

(A) Ctrl + V
(B) Ctrl + C
(C) Ctrl + S
(D) Ctrl + Z

Q36. A document is open but not saved. Power fails. Which statement best explains why typed text may be lost while an earlier saved copy remains?

(A) RAM is input memory; storage is output memory
(B) RAM is volatile; storage is non-volatile
(C) RAM is non-volatile; storage is volatile
(D) RAM is secondary memory; storage is primary memory

Q37. Which of these is an operating system?

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

Q38. In C2, the formula is =A2+B2. It is copied to C3. Which formula will appear if references are relative?

(A) =$A$2+$B$2
(B) =A3+B3
(C) =A2+B2
(D) =A2+B3

Q39. A marks sheet must show toppers first while each name stays with its own marks. Which spreadsheet action is correct?

(A) Filter blank cells
(B) Merge name and marks cells
(C) Sort only the marks column
(D) Sort rows by marks

Q40. What does it mean to "download" a file?

(A) To copy it from the internet to your device
(B) To delete it from your device
(C) To print it on paper
(D) To send it to a friend

AI, Robotics and Information Technology

5 questions · 1 mark each · 5 marks

Q41. Which of these is an example of using technology politely?

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

Q42. What does "AI" stand for?

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

Q43. A computer program that answers questions in ordinary language is an example of:

(A) A spreadsheet
(B) Artificial Intelligence
(C) A printer driver
(D) A screensaver

Q44. Which of these is a search engine?

(A) Paint
(B) Word
(C) Google
(D) Excel

Q45. Which device stores photos taken on a phone?

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

Achievers Section

5 questions · 3 marks each · 15 marks

Q46. The lab has short power cuts. Students must save typing work and shut down without losing data. Which device is most useful?

(A) External hard disk
(B) UPS
(C) Voltage stabiliser
(D) Network switch

Q47. The binary number 1000 equals which decimal number?

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

Q48. In MS Paint, a scanned chart has a wide empty border. Riya wants the printed page to show only the chart, not the border. Which command is best after selecting the chart?

(A) Crop
(B) Invert colour
(C) Resize
(D) Rotate

Q49. In MS Paint, Arjun fills a many-coloured drawing with one wrong colour by mistake. What should he do immediately to restore it most safely?

(A) Save the file now
(B) Press Ctrl+Z
(C) Refill with white colour
(D) Choose the Eraser tool

Q50. In a folder, three files not next to each other must be selected for copying. Which action should Rohan use?

(A) Hold Ctrl and click each file
(B) Right-click the folder name
(C) Double-click each file quickly
(D) Hold Shift and click first and last

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