



CREST Cyber Olympiad (CCO)

Previous Year Paper

Class 7 (Set - A)

Time Allowed: 1 hour

Maximum Marks: 60

- There are a total of **50 questions** in this booklet comprising **2 sections**, namely the **Computer & IT and Achievers' Section**, consisting of **40 questions (1 mark each) & 10 questions (2 marks each)** respectively.
- There is **no negative marking**. The use of a calculator is not permitted.
- There is **only ONE correct option** to a given question.
- The use of unfair means may result in the cancellation of the exam. Any such instances must be reported at **+91-98182-94134** or **info@crestolympiads.com**

DO NOT OPEN THIS BOOKLET UNTIL ASKED TO DO SO

FILL IN THE DETAILS

Candidate Name: _____

Class: _____ Section: _____

CREST ID: _____

Computers & IT (Each Question is 1 Mark)

- In MS Excel, paste special allows some operations while you paste in a new cell. Which of the following operations is valid?
 - Square
 - Percentage
 - Goal seek
 - Divide
- Which of the following topologies contains multiple hubs?
 - Mesh
 - Tree
 - Bus
 - Star
- Consider the following statements:
 - Primary memory includes cache.
 - Secondary memory is faster than primary memory.Which is true?
 - Only Statement 1 is correct
 - Only Statement 2 is correct
 - Both statements are correct
 - Both statements are wrong
- Which term defines a group of 16 bits?
 - Byte
 - Word
 - Double Byte
 - Nybble
- Why is a compiler faster than an interpreter during program execution?
 - It skips errors
 - It uses less memory
 - It translates the whole code at once
 - It reads code backwards
- What will a Boolean variable hold?
 - Yes or No
 - Only numbers
 - True or False
 - Alphabet characters
- In encryption, what does a 'key' do?
 - A piece of data used to convert plaintext into ciphertext
 - It helps encode and decode messages
 - It stores encrypted data
 - It stores passwords
- Which device usually assigns IP addresses on a local network?
 - Printer
 - Switch
 - Router
 - Firewall
- Why is it important to cite sources in your work?
 - To give proper credit to authors
 - To avoid plagiarism
 - To ensure others trust your work
 - To receive a better grade
- You want to join a trending video challenge, but it involves going to a stranger's house. What's the best decision?
 - Record it secretly
 - Tell your friends
 - Avoid the challenge
 - Go with a group
- What data type is ideal for storing a phone number?
 - Word
 - Number
 - Yes/No
 - Alphanumeric
- A form asks: 'Are you above 18?' What data type stores this input?
 - Word
 - Yes/No
 - Number
 - Image

- 13.** What is common to all loop structures?
- They have a fixed number of repetitions.
 - They contain a condition to control repetition.
 - They all must use counters.
 - They only work with numbers.
- 14.** Which Scratch block combination helps a sprite decide between two actions based on whether a variable is equal to 5?
- if then say 'Equal'
 - if then say 'Equal' else say 'Not Equal'
 - say 'Equal' if variable = 5
 - when flag clicked, variable = 5
- 15.** What is the purpose of the tag in HTML?
- To link JavaScript directly
 - To embed videos
 - To connect external stylesheets
 - To create hyperlinks
- 16.** Fill in the blank:
Every HTML tag must have a/an _____ tag.
- copy
 - open
 - repeat
 - matching
- 17.** Which CSS property changes only the background colour?
- color
 - bg-color
 - background-color
 - theme-color
- 18.** Which tag contains all the visible content of a webpage?
- <visible>
 - <content>
 - <body>
 - <main>
- 19.** Consider the following statements:
- DTP software is used for designing posters.
 - DTP software is used for creating animations.
- Which is true?
- Only 1
 - Only 2
 - Both
 - Neither
- 20.** Which menu helps you open an already saved file in Photoshop?
- Image
 - Layer
 - File
 - Edit
- 21.** What is the main purpose of using layers in Photoshop?
- To group files
 - To add effects to every folders
 - To organise and edit parts separately
 - To save space and delete
- 22.** What is the purpose of the Crop Tool?
- Add text to the image
 - Remove unwanted areas from the image
 - Duplicate a layer
 - Increase the size of the image
- 23.** Consider the following statements:
- AI can generate music.
 - AI understands music like humans.
- Which is true?
- Only 1
 - Only 2
 - Both are true
 - Both are false
- 24.** Fill in the blank:
A ___ is a device that sends data to the internet in an IoT system.
- table
 - sensor
 - charger
 - microwave

25. Which is a correct example of edge computing at school?
- Wired earphones used for listening music
 - Calculator used in maths class
 - Analogue digital clock for tracking time
 - Using a digital board for teaching
26. Which job does edge computing do best?
- Building rockets for NASA
 - Measure sunlight from the Moon
 - Handle traffic light decisions in a city
 - Paint a wall
27. What is the purpose of 'Start Mail Merge' in MS Word?
- To create a new Word document
 - To format a document
 - To link a document to data for mass production
 - To change the font style
28. What is the first step in creating a macro in MS Word?
- Choose speed for the macro
 - Click on the Record Macro button
 - Open a new document
 - Write the script manually
29. Which feature in MS Word allows you to check updates in the documents and highlight the differences?
- Track Changes
 - Match
 - Version History
 - Spell Check
30. Which feature in MS Word Online allows for document sharing with different access levels?
- Permissions
 - The document can be opened by anyone with the link
 - It allows for comment discussions
 - Commenters can be tagged to reply
31. Where can you find the option to customise shadow properties?
- Format Shape pane
 - Insert tab
 - Animations tab
 - Review tab
32. Consider the following statements:
 1. Grouping helps move multiple items together.
 2. "Send to Back" deletes an object.
 Which is true?
- Only 1 is true
 - Only 2 is true
 - Both are true
 - Both are false
33. What can you manage using the Animation Pane in PowerPoint?
- Layout
 - Object colours
 - Animation order
 - Background images
34. Fill in the blank:
 You can share a PowerPoint Online file with others by sending them a _____.
- chart link
 - timeline
 - hyperlink
 - document ID
35. Fill in the blank:
 =IF(OR(FALSE, FALSE), "Win", "____")
 returns what value?
- 1
 - Error
 - Lose
 - Null

36. Fill in the blank:
In COUNTIFS, if the first criteria is ">=10", the second criteria must also follow _____ condition.
- a. A number b. A string
c. A date d. A cell reference

37. Fill in the blank:
The default type of data validation is _____.

- a. Whole Number
b. Decimal
c. List
d. Date

38. Which part of a URL is responsible for identifying the server hosting the website?

- a. Protocol b. Hostname
c. Path d. Port

39. What is the primary function of a modem in a network?

- a. Convert digital data
b. Connect networks
c. Store data
d. Encrypt data

40. What does a proxy server primarily do for the user?

- a. Encrypt data
b. Change IP address
c. Route internet traffic securely
d. Monitor online activity





Achievers' Section (Each Question is 2 Marks)

41. Identify the term based on the description given below:

1. It is a prepared application that takes advantages of a known weakness.
2. It is an unintended and unpatched flaw in software code that exposes it to potential exploitation by hackers or malicious software code such as viruses, worms, Trojan horses and other forms of malware.
3. It is a piece of software, a chunk of data, or a sequence of commands that takes advantage of a bug or vulnerability to cause unintended or unanticipated behaviour to occur on computer software, hardware, or something electronic.
4. It is a code that takes advantage of a software vulnerability or security flaw.

- a. Security exploit
b. Vulnerability scanner
c. Packet sniffer
d. Rootkit

42. Match the following:

	Column A		Column B
(i)		(a)	Java
(ii)		(b)	Excel
(iii)		(c)	Word
(iv)		(d)	PowerPoint

- a. (i) - (a), (ii) - (b), (iii) - (c), (iv) - (d)
b. (i) - (c), (ii) - (d), (iii) - (a), (iv) - (b)
c. (i) - (d), (ii) - (a), (iii) - (b), (iv) - (c)
d. (i) - (b), (ii) - (c), (iii) - (d), (iv) - (a)

43. Which binary number equals decimal 7?

- a. 111 b. 11
c. 1110 d. 1001

44. What is the main function of a firewall in a home router?
- Improve video quality
 - Filter incoming traffic
 - Assign IP addresses
 - Save memory
45. Which of the following will make a sprite rotate continuously but only when the spacebar is pressed?
- when green flag clicked forever turn 15 degrees
 - when [space] key pressed repeat turn 15 degrees
 - forever if key [space] pressed then turn 15 degrees
 - when [space] key pressed broadcast [spin]
46. Which property is used to arrange items in rows or columns using boxes?
- float
 - display
 - boxify
 - spacing
47. Which button in MS Word helps you to accept or reject changes made using 'Track Changes'?
- Review
 - File
 - Insert
 - View
48. What does the term 'transparency' refer to in fills?
- Visibility
 - Zoom
 - Transparency
 - Fill
49. Fill in the blank:
The VLOOKUP function in Excel is primarily used to find a value in a _____.
- Table
 - Row
 - Column
 - Range
50. Which of the following is NOT a benefit of using a VPN?
- Hiding your browsing history
 - Protecting your data from hackers
 - Speeding up internet connections
 - Accessing region-restricted content

Answer Key

- | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1. d | 2. b | 3. a | 4. b | 5. c | 6. c | 7. b | 8. c | 9. b | 10. c |
| 11. a | 12. b | 13. b | 14. b | 15. c | 16. d | 17. c | 18. c | 19. a | 20. c |
| 21. c | 22. b | 23. a | 24. b | 25. d | 26. c | 27. c | 28. b | 29. a | 30. a |
| 31. a | 32. a | 33. c | 34. c | 35. c | 36. a | 37. a | 38. b | 39. a | 40. b |
| 41. a | 42. c | 43. a | 44. b | 45. c | 46. b | 47. a | 48. a | 49. a | 50. c |