

CCC PLUS EXAMINATION

Advanced Question Bank

Computer Fundamentals (Advanced)

1. Which component resolves the bottleneck in von Neumann architecture by separating instruction and data caches?

- a) Northbridge
- b) Harvard architecture
- c) BIOS
- d) ALU

Answer: b) Harvard architecture

2. If a 32-bit system uses 4 KB pages, how many entries are needed in a flat page table for full virtual address space?

- a) 1,048,576
- b) 1,024
- c) 4,096
- d) 16,777,216

Answer: a) 1,048,576

3. Which memory type is used in SSDs for persistent storage?

- a) DRAM
- b) SRAM
- c) NAND Flash
- d) EEPROM

Answer: c) NAND Flash

4. What is the primary purpose of ECC memory?

- a) Increase speed
- b) Reduce power consumption
- c) Detect and correct bit errors
- d) Enable overclocking

Answer: c) Detect and correct bit errors

5. In binary, what is the two's complement of 0101?

- a) 1010
- b) 1011
- c) 0101
- d) 1111

Answer: b) 1011

6. Which bus connects CPU to RAM in modern systems?

- a) PCIe
- b) SATA
- c) Front Side Bus (FSB)
- d) DMI

Answer: c) Front Side Bus (FSB)

7. A nibble can represent values from:

- a) 0 to 7
- b) 0 to 15
- c) 0 to 255
- d) -8 to +7

Answer: b) 0 to 15

8. Which generation introduced microprocessors?

- a) First
- b) Second
- c) Third
- d) Fourth

Answer: d) Fourth

9. RAID 1 provides:

- a) Striping
- b) Mirroring
- c) Parity
- d) Compression

Answer: b) Mirroring

10. What does BIOS do during POST?

- a) Loads OS from disk
- b) Checks hardware functionality
- c) Connects to Wi-Fi
- d) Runs antivirus scan

Answer: b) Checks hardware functionality

Operating System and File Management (Advanced)

11. What is the key difference between a process and a thread?

- a) Threads share memory; processes do not
- b) Processes are faster
- c) Threads cannot be scheduled
- d) Processes use less RAM

Answer: a) Threads share memory; processes do not

12. Which file system supports file-level encryption in Windows?

- a) FAT32
- b) exFAT
- c) NTFS
- d) ext4

Answer: c) NTFS

13. What happens when you delete a file using Shift + Delete in Windows?

- a) It goes to Recycle Bin
- b) It is permanently deleted but recoverable via tools
- c) It is encrypted
- d) It is moved to cloud

Answer: b) It is permanently deleted but recoverable via tools

14. Virtual memory uses:

- a) Cache only
- b) Hard disk as extension of RAM
- c) GPU memory
- d) ROM

Answer: b) Hard disk as extension of RAM

15. Which command lists all files including hidden ones in Linux?

- a) ls
- b) dir
- c) ls -a
- d) list /all

Answer: c) ls -a

16. What is the purpose of a swap file?

- a) Store temporary internet files
- b) Extend virtual memory
- c) Backup user data
- d) Compress disk space

Answer: b) Extend virtual memory

17. In Windows, which folder stores user-specific application data?

- a) Program Files
- b) AppData
- c) System32
- d) Temp

Answer: b) AppData

18. What does defragmentation do?

- a) Deletes duplicate files
- b) Reorganizes fragmented data for faster access
- c) Encrypts files
- d) Compresses disk

Answer: b) Reorganizes fragmented data for faster access

19. Which key combination opens Task Manager directly?

- a) Ctrl + Alt + Del
- b) Ctrl + Shift + Esc
- c) Alt + F4
- d) Win + R

Answer: b) Ctrl + Shift + Esc

20. What is the default permission for a new file in Linux?

- a) 777
- b) 644
- c) 666
- d) 755

Answer: b) 644

Word Processing (Advanced)

21. Which feature allows automatic updating of figure captions in Writer/Word?

- a) Mail Merge
- b) Cross-reference
- c) Styles
- d) Table of Contents

Answer: b) Cross-reference

22. What does “Keep with next” paragraph setting do?

- a) Prevents page break between paragraph and next
- b) Copies paragraph to next page
- c) Links to next document
- d) Deletes next paragraph

Answer: a) Prevents page break between paragraph and next

23. Which file format preserves formatting across platforms best?

- a) .txt
- b) .doc
- c) .odt
- d) .pdf

Answer: d) .pdf

24. What is the purpose of “Track Changes”?

- a) Monitor document size
- b) Record edits for review
- c) Auto-save every change
- d) Encrypt changes

Answer: b) Record edits for review

25. How do you insert a non-breaking space in Writer?

- a) Ctrl + Space
- b) Ctrl + Shift + Space
- c) Alt + Space
- d) Insert → Special Character

Answer: b) Ctrl + Shift + Space

26. Which style controls the appearance of headings in TOC?

- a) Body Text
- b) Heading 1, Heading 2, etc.
- c) Caption
- d) Default

Answer: b) Heading 1, Heading 2, etc.

27. What does “Orphan control” prevent?

- a) Single line at bottom of page
- b) Single line at top of page
- c) Blank pages
- d) Image overflow

Answer: b) Single line at top of page

28. Which menu contains “Footnotes and Endnotes”?

- a) Edit
- b) Insert
- c) Format
- d) Tools

Answer: b) Insert

29. What is the shortcut to paste without formatting?

- a) Ctrl + V
- b) Ctrl + Shift + V
- c) Alt + V
- d) Ctrl + Alt + V

Answer: b) Ctrl + Shift + V

30. Which feature converts handwritten notes to text in modern Word?

- a) OCR
- b) Ink to Text
- c) Smart Lookup
- d) Dictation

Answer: b) Ink to Text

Spreadsheet (Advanced)

31. What does =VLOOKUP(100, A1:D10, 3, FALSE) return if 100 is not found?

- a) 0
- b) #N/A
- c) Blank
- d) Last value

Answer: b) #N/A

32. Which function counts non-blank cells?

- a) COUNT
- b) COUNTA
- c) COUNTBLANK
- d) SUM

Answer: b) COUNTA

33. What is absolute referencing?

- a) Using \$A\$1 to lock cell reference
- b) Linking to another sheet
- c) Copying values only
- d) Using named ranges

Answer: a) Using \$A\$1 to lock cell reference

34. Which error appears if a formula divides by zero?

- a) #VALUE!
- b) #REF!
- c) #DIV/0!
- d) #NAME?

Answer: c) #DIV/0!

35. What does =IFERROR(A1/B1, "Error") do?

- a) Returns "Error" if division fails
- b) Stops calculation
- c) Highlights cell red
- d) Logs error in another sheet

Answer: a) Returns "Error" if division fails

36. Which chart best shows part-to-whole relationship?

- a) Line
- b) Bar
- c) Pie
- d) Scatter

Answer: c) Pie

37. What is the result of =ROUND(3.14159, 2)?

- a) 3.14
- b) 3.142
- c) 3
- d) 3.1

Answer: a) 3.14

38. How do you freeze the top row in Calc/Excel?

- a) View → Freeze Panes
- b) Format → Lock Row
- c) Tools → Freeze
- d) Right-click → Freeze

Answer: a) View → Freeze Panes

39. What does =SUMIF(A1:A10, ">50", B1:B10) do?

- a) Sums B1:B10 where A1:A10 > 50
- b) Counts cells >50
- c) Multiplies A and B
- d) Averages B1:B10

Answer: a) Sums B1:B10 where A1:A10 > 50

40. Which format code shows 1500 as “1.5K”?

- a) 0.0,"K"
- b) #,##0
- c) 0.00E+00
- d) Not possible

Answer: a) 0.0,"K"

Internet and Communication (Advanced)

41. Which protocol encrypts HTTP traffic?

- a) FTP
- b) SMTP
- c) HTTPS
- d) DNS

Answer: c) HTTPS

42. What does a DNS server do?

- a) Assigns IP addresses
- b) Converts domain names to IP addresses
- c) Filters spam
- d) Hosts websites

Answer: b) Converts domain names to IP addresses

43. Which port does HTTPS use by default?

- a) 80
- b) 443
- c) 25
- d) 21

Answer: b) 443

44. What is a cookie in web browsing?

- a) A virus
- b) Small data stored by website on user's device
- c) A type of ad
- d) Browser setting

Answer: b) Small data stored by website on user's device

45. Which is NOT a valid IPv4 address?

- a) 192.168.1.1
- b) 255.255.255.255
- c) 300.40.50.60
- d) 127.0.0.1

Answer: c) 300.40.50.60

46. What is the purpose of incognito mode?

- a) Hide IP address
- b) Prevent local storage of history/cookies
- c) Encrypt traffic
- d) Block ads

Answer: b) Prevent local storage of history/cookies

47. Which technology enables real-time video calls over the internet?

- a) VoIP
- b) FTP
- c) SMTP
- d) POP3

Answer: a) VoIP

48. What is a QR code phishing attack called?

- a) Smishing
- b) Vishing
- c) Quishing
- d) Pharming

Answer: c) Quishing

49. Which header field prevents clickjacking?

- a) Content-Type
- b) X-Frame-Options
- c) Cache-Control
- d) User-Agent

Answer: b) X-Frame-Options

50. What does CDN stand for?

- a) Central Data Network
- b) Content Delivery Network
- c) Computer Distribution Node
- d) Cloud Data Node

Answer: b) Content Delivery Network

Digital Financial Services & Cybersecurity (Advanced)

51. Which UPI feature allows recurring payments?

- a) UPI Collect
- b) UPI AutoPay
- c) UPI Lite
- d) UPI QR

Answer: b) UPI AutoPay

52. What is the maximum transaction limit per UPI transaction (as of 2024)?

- a) ₹10,000
- b) ₹1,00,000
- c) ₹2,00,000
- d) ₹5,00,000

Answer: b) ₹1,00,000

53. Which attack tricks users into revealing OTPs via fake customer care calls?

- a) Phishing
- b) Vishing
- c) Smishing
- d) Ransomware

Answer: b) Vishing

54. What does 2FA stand for?

- a) Two-Factor Authentication
- b) Two-Factor Authorization
- c) Two-Factor Access
- d) Two-Factor Agreement

Answer: a) Two-Factor Authentication

55. Which is a secure practice for UPI?

- a) Share UPI PIN with family
- b) Use public Wi-Fi for payments
- c) Never share OTP or UPI PIN
- d) Save UPI PIN in notes

Answer: c) Never share OTP or UPI PIN

56. What is the purpose of a digital signature?

- a) Compress files
- b) Verify authenticity and integrity
- c) Encrypt passwords
- d) Speed up transactions

Answer: b) Verify authenticity and integrity

57. Which law governs digital transactions in India?

- a) IPC
- b) IT Act, 2000
- c) RBI Act
- d) Consumer Protection Act

Answer: b) IT Act, 2000

58. What is ransomware?

- a) Software that encrypts files and demands payment
- b) Adware
- c) Browser extension
- d) Antivirus

Answer: a) Software that encrypts files and demands payment

59. Which is NOT a principle of cybersecurity?

- a) Confidentiality
- b) Integrity
- c) Availability
- d) Profitability

Answer: d) Profitability

60. What should you do if you receive a suspicious UPI collect request?

- a) Approve it quickly
- b) Ignore and report
- c) Share with friends
- d) Call the number in request

Answer: b) Ignore and report

General & Emerging Technologies

61. What is cloud storage?

- a) Storing data on remote servers accessed via internet
- b) Using USB drives
- c) Saving on desktop
- d) Printing documents

Answer: a) Storing data on remote servers accessed via internet

62. Which is a risk of public Wi-Fi?

- a) Slow speed
- b) Man-in-the-middle attacks
- c) High cost
- d) Limited apps

Answer: b) Man-in-the-middle attacks

63. What does AI bias refer to?

- a) AI running slowly
- b) Unfair outcomes due to skewed training data
- c) AI not connecting to internet
- d) High electricity usage

Answer: b) Unfair outcomes due to skewed training data

64. Which service offers free cloud storage from Google?

- a) OneDrive
- b) iCloud
- c) Google Drive
- d) Dropbox Basic

Answer: c) Google Drive

65. What is biometric authentication?

- a) Password-based login
- b) Using fingerprint, face, or iris
- c) SMS verification
- d) Security questions

Answer: b) Using fingerprint, face, or iris

66. What is the main advantage of open-source software?

- a) Free to use and modify
- b) Better graphics
- c) Always virus-free
- d) Faster than proprietary

Answer: a) Free to use and modify

67. Which is an example of SaaS?

- a) Windows OS
- b) Gmail
- c) LibreOffice
- d) Ubuntu

Answer: b) Gmail

68. What is digital footprint?

- a) Physical shoe print
- b) Data trail left by online activity
- c) File size
- d) Screen resolution

Answer: b) Data trail left by online activity

69. Which practice enhances online privacy?

- a) Using same password everywhere
- b) Enabling two-factor authentication
- c) Clicking unknown links
- d) Sharing location publicly

Answer: b) Enabling two-factor authentication

70. What is ethical hacking?

- a) Stealing data
- b) Hacking with permission to find vulnerabilities
- c) Creating viruses
- d) Spamming emails

Answer: b) Hacking with permission to find vulnerabilities

Scenario-Based & Application Questions

71. You receive an email claiming your bank account is locked and asking you to click a link to verify. What should you do?

- a) Click the link immediately
- b) Forward to friends
- c) Delete and report as phishing
- d) Call the number in the email

Answer: c) Delete and report as phishing

72. In a spreadsheet, sales data from Jan–Dec is in B2:B13. Which formula calculates average sales?

- a) =SUM(B2:B13)
- b) =AVERAGE(B2:B13)
- c) =MEAN(B2:B13)
- d) =TOTAL(B2:B13)/12

Answer: b) =AVERAGE(B2:B13)

73. Your document has 50 pages. How do you ensure each chapter starts on a new right-hand page?

- a) Insert page break
- b) Use “Odd Page” section break
- c) Press Enter 50 times
- d) Change margins

Answer: b) Use “Odd Page” section break

74. A file named “report.odt” won’t open in MS Word. Why?

- a) It’s a LibreOffice format; Word may not support it fully
- b) File is corrupted
- c) Word doesn’t exist
- d) Requires password

Answer: a) It’s a LibreOffice format; Word may not support it fully

75. You need to send a large video file (>25 MB). What is the best method?

- a) Attach to email
- b) Upload to cloud and share link
- c) Print and courier
- d) Send via WhatsApp

Answer: b) Upload to cloud and share link

76. After formatting a USB drive, you realize important files were on it. Can they be recovered?

- a) Never
- b) Only if not overwritten
- c) Always
- d) Only by police

Answer: b) Only if not overwritten

77. Your computer is slow. Which is NOT a likely cause?

- a) Too many startup programs
- b) Low disk space
- c) Using dark mode
- d) Malware infection

Answer: c) Using dark mode

78. You're on a public computer. What should you avoid?

- a) Logging into personal accounts
- b) Using incognito mode
- c) Clearing history after use
- d) Using calculator

Answer: a) Logging into personal accounts

79. Which password is strongest?

- a) password123
- b) P@ssw0rd!2024
- c) 12345678
- d) iloveyou

Answer: b) P@ssw0rd!2024

80. You receive a UPI request from an unknown VPA. What should you do?

- a) Approve it
- b) Reject and block
- c) Call the VPA
- d) Share your PIN

Answer: b) Reject and block

Advanced True/False

81. Cache memory is faster than RAM. (True/False)

Answer: True

82. Virtual memory can be larger than physical RAM. (True/False)

Answer: True

83. HTTPS guarantees a website is safe from malware. (True/False)

Answer: False

84. UPI transactions are reversible by the user. (True/False)

Answer: False

85. Formatting a drive permanently erases all data beyond recovery. (True/False)

Answer: False

86. Cloud storage is always free. (True/False)

Answer: False

87. Incognito mode hides your activity from your ISP. (True/False)

Answer: False

88. All open-source software is free of cost. (True/False)

Answer: False

89. A firewall can prevent all types of cyberattacks. (True/False)

Answer: False

90. Biometric data can be changed if compromised. (True/False)

Answer: False

91. IPv6 has 128-bit addresses. (True/False)

Answer: True

92. The Recycle Bin uses disk space. (True/False)

Answer: True

93. Ctrl + Shift + N creates a new folder in Windows. (True/False)

Answer: True

94. PDF files cannot contain viruses. (True/False)

Answer: False

95. UPI works without internet. (True/False)

Answer: False

96. A strong password should include uppercase, lowercase, numbers, and symbols. (True/False)

Answer: True

97. LibreOffice is an example of proprietary software. (True/False)

Answer: False

98. The “sudo” command in Linux grants temporary admin rights. (True/False)

Answer: True

99. QR codes can execute code on your phone. (True/False)

Answer: False

100. Digital literacy includes understanding online safety and ethics. (True/False)

Answer: True

Total Questions: 100 (Advanced Level)

Prepared for CCC PLUS Examination – Enhanced Difficulty

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