#### **Assignment- Basic of Computer**

- 1. Who is considered the "father of the computer"?
  - A) Charles Babbage
  - B) Alan Turing
  - C) John von Neumann
  - D) More than one of the above
  - E) None of the above
- 2. Which company developed the first microprocessor, the Intel 4004?
  - A) Intel
  - B) AMD
  - C) Motorola
  - D) More than one of the above
  - E) None of the above
- 3. What programming language was developed by Dennis Ritchie at Bell Labs in the 1970s?
  - A) Fortran
  - B) COBOL
  - C) Pascal
  - D) More than one of the above
  - E) None of the above
- 4. Which of the following is an example of an input device?
  - A) Monitor
  - B) Printer
  - C) Keyboard
  - D) More than one of the above
  - E) None of the above
- 5. Which of these is a digital signal?
  - A) Analog audio signal
  - B) Radio waves
  - C) Binary code
  - D) More than one of the above
  - E) None of the above
- 6. What does CPU stand for in computing?
  - A) Central Processing Unit
  - **B) Computer Programming Unit**
  - C) Central Processing Unit
  - D) More than one of the above
  - E) None of the above
- 7. Which type of memory is non-volatile and can be electrically erased and reprogrammed?
  - A) RAM
  - B) ROM
  - C) Flash
  - D) More than one of the above
  - E) None of the above

- 8. What is the main function of the Control Unit in a CPU?
  - A) Perform arithmetic operations
  - B) Manage memory allocation
  - C) Direct the operation of the processor
  - D) More than one of the above
  - E) None of the above
- 9. Which of the following is an example of a file format?
  - A) JPEG
  - B) Python
  - C) HTML
  - D) More than one of the above
  - E) None of the above
- 10. Which generation of computers used vacuum tubes as their primary technology?
  - A) First generation
  - B) Second generation
  - C) Third generation
  - D) More than one of the above
  - E) None of the above
- 11. What is the main difference between analog and digital signals?
  - A) Analog signals are continuous, while digital signals are discrete.
  - B) Analog signals are discrete, while digital signals are continuous.
  - C) Analog signals are faster than digital signals.
  - D) More than one of the above
  - E) None of the above
- 12. Which of the following is NOT a type of software?
  - A) Operating System
  - B) Database Management System
  - C) Hard Disk Drive
  - D) More than one of the above
  - E) None of the above
- 13. Which component is responsible for executing arithmetic and logical operations?
  - A) Memory
  - **B) Input Device**
  - C) ALU (Arithmetic Logic Unit)
  - D) More than one of the above
  - E) None of the above

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- 14. Which programming language was developed for business applications and was one of the earliest high-level languages?
  - A) BASIC
  - B) COBOL
  - C) Fortran
  - D) More than one of the above
  - E) None of the above
- 15. What is the primary purpose of an output device?
  - A) To input data into a computer
  - B) To process data
  - C) To display or produce results from processed data
  - D) More than one of the above
  - E) None of the above
- 16. Which of the following file formats is typically used for compressing video data?
  - A) MP3
  - B) JPEG
  - C) MP4
  - D) More than one of the above
  - E) None of the above
- 17. Which generation of computers introduced the use of 23. Which microprocessor architecture is known for its Reduced integrated circuits?
  - A) First generation
  - B) Second generation
  - C) Third generation
  - D) More than one of the above
  - E) None of the above
- 18. What is the function of the system bus in a computer?
  - A) To perform arithmetic operations
  - B) To manage power supply
  - C) To connect various components and allow data transfer
  - D) More than one of the above
  - E) None of the above
- 19. Which of the following is an example of malware?
  - A) Firewall
  - B) Antivirus
  - C) Trojan horse
  - D) More than one of the above
  - E) None of the above

- 20. Which memory unit is used for temporary storage that is erased when the computer is turned off?
  - A) ROM
  - B) RAM
  - C) Hard Drive
  - D) More than one of the above
  - E) None of the above
- 21. Which type of control unit is responsible for interpreting and executing instructions in a CPU?
  - A) Arithmetic Control Unit
  - **B) Instruction Control Unit**
  - C) Memory Control Unit
  - D) More than one of the above
  - E) None of the above
- 22. Which of these file formats is commonly used for documents and presentations?
  - A) DOCX
  - B) JPEG
  - C) MP4
  - D) More than one of the above
  - E) None of the above
- Instruction Set Computing (RISC) design?
  - A) x86
  - B) ARM
  - C) CISC
  - D) More than one of the above
  - E) None of the above
- 24. What is the function of the Arithmetic Logic Unit (ALU)?
  - A) Directs operations of the CPU
  - B) Stores data temporarily
  - C) Executes arithmetic and logical operations
  - D) More than one of the above
  - E) None of the above
- 25. Which generation of computers used transistors instead of vacuum tubes?
  - A) First generation
  - B) Second generation
  - C) Third generation
  - D) More than one of the above
  - E) None of the above
- 26. What does ROM stand for in computer terminology?
  - A) Read-Only Memory
  - **B) Random-Only Memory**
  - C) Read-Only Module
  - D) More than one of the above
  - E) None of the above

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# Basic of Computer Infeepedia

- 27. Which of the following is a primary function of an operating system?
- A) Manage hardware resources
- B) Perform calculations
- C) Design hardware components
- D) More than one of the above
- E) None of the above
- 28. Which type of memory is typically used to store the BIOS?
- A) RAM
- B) ROM
- C) Flash
- D) More than one of the above
- E) None of the above
- 29. What type of device is a printer?
- A) Input device
- B) Output device
- C) Storage device
- D) More than one of the above
- E) None of the above
- 30. Which programming language is known for its use in web development and dynamic web content?
- A) C++
- B) Python
- C) JavaScript
- D) More than one of the above
- E) None of the above
- 31. What is the purpose of the fetch-decode-execute cycle in a CPU?
- A) Manage memory allocation
- B) Perform input and output operations
- C) Fetch, decode, and execute instructions
- D) More than one of the above
- E) None of the above
- 32. Which component of a computer system is used to store long-term data?
- A) RAM
- B) Hard Disk Drive
- C) CPU Cache
- D) More than one of the above
- E) None of the above

33. Which of the following is an example of system software?

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- A) Web Browser
- **B) Word Processor**
- C) Operating System
- D) More than one of the above
- E) None of the above
- 34. What is the purpose of a device driver?
- A) To manage hardware resources
- B) To provide instructions for hardware components
- C) To protect the system from viruses
- D) More than one of the above
- E) None of the above
- 35. Which technology was used in the development of the first microcomputers?
- A) Integrated circuits
- B) Vacuum tubes
- C) Transistors
- D) More than one of the above
- E) None of the above
- 36. What is the main advantage of using solid-state drives (SSDs) over traditional hard disk drives (HDDs)?
- A) Higher storage capacity
- B) Faster data access speeds
- C) Lower power consumption
- D) More than one of the above
- E) None of the above
- 37. Which of the following is an example of a high-level programming language?
- A) Assembly
- B) Machine Code
- C) Python
- D) More than one of the above
- E) None of the above
- **38.** Which type of software is used to perform tasks such as word processing, spreadsheets, and presentations?
- A) System software
- B) Application software
- C) Utility software
- D) More than one of the above
- E) None of the above
- 39. What type of signal is used in traditional analog telecommunication?
- A) Digital signal
- B) Analog signal
- C) Both digital and analog signals
- D) More than one of the above
- E) None of the above

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- 40. Which company introduced the first commercially successful personal computer, the IBM PC?
- A) Apple
- B) IBM
- C) Microsoft
- D) More than one of the above
- E) None of the above
- 41. Which type of memory is faster but more volatile, used for cache in CPUs?
- A) RAM
- B) ROM
- C) Cache Memory
- D) More than one of the above
- E) None of the above
- 42. What does the acronym "BIOS" stand for in computing?
- A) Basic Integrated Operating System
- B) Basic Input/Output System
- C) Binary Integrated Operating System
- D) More than one of the above
- E) None of the above
- 43. Which programming language is primarily used for system-level programming and is known for its efficiency and control over hardware?
- A) Java
- B) C
- C) Ruby
- D) More than one of the above
- E) None of the above
- 44. What is the primary function of an operating system's kernel?
- A) Manage software applications
- B) Control hardware and manage system resources
- C) Provide network services
- D) More than one of the above
- E) None of the above
- 45. Which of the following is NOT a common type of malware?
- A) Virus
- B) Worm
- C) Firewall
- D) More than one of the above
- E) None of the above

- 46. What is the purpose of an IP address in a network?
- A) To encrypt data
- B) To identify and locate devices on a network
- C) To manage network traffic
- D) More than one of the above
- E) None of the above
- 47. Which of the following file formats is associated with lossless compression for images?
- A) JPEG
- B) PNG
- C) MP3
- D) More than one of the above
- E) None of the above
- **48.** Which generation of computers is characterized by the use of microprocessors?
- A) First generation
- B) Second generation
- C) Fourth generation
- D) More than one of the above
- E) None of the above
- 49. Which type of memory is used to store frequently accessed data to speed up retrieval?
- A) Cache Memory
- B) ROM
- C) Hard Drive
- D) More than one of the above
- E) None of the above
- 50. Which of the following is a feature of a multi-core processor?
- A) Single processing unit
- B) Multiple processing units on one chip
- C) Only used in servers
- D) More than one of the above
- E) None of the above
- 51. Which programming language is designed for statistical analysis and data visualization?
- A) MATLAB
- B) JavaScript
- C) PHP
- D) More than one of the above
- E) None of the above

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- **52.** Which type of control unit directs the flow of data between the CPU and other components?
- A) Memory Control Unit
- B) I/O Control Unit
- C) Arithmetic Control Unit
- D) More than one of the above
- E) None of the above
- 53. Which of the following is NOT a type of network topology?
- A) Star
- B) Mesh
- C) Tree
- D) More than one of the above
- E) None of the above
- 54. Which component of a computer system is responsible for coordinating the timing of all activities?
- A) Clock
- B) CPU
- C) Memory
- D) More than one of the above
- E) None of the above
- 55. Which software development model emphasizes incremental and iterative progress through small, manageable units of work?
- A) Waterfall Model
- B) Agile Model
- C) V-Model
- D) More than one of the above
- E) None of the above
- 56. Which type of file format is commonly used for audio files?
- A) MP4
- B) JPEG
- c) MP3
- D) More than one of the above
- E) None of the above
- 57. Which company is known for developing the Unix operating system?
- A) Microsoft
- B) Bell Labs
- C) Apple
- D) More than one of the above
- E) None of the above

- 58. Which programming language is often used for web development and scripting on the server side?
- A) JavaScript
- B) PHP
- C) HTML
- D) More than one of the above
- E) None of the above
- 59. What does the term "bit" stand for in computing?
- A) Binary Digit
- B) Binary Information Technology
- C) Base Input Technology
- D) More than one of the above
- E) None of the above
- 60. Which of the following file formats is commonly used for spreadsheets?
- A) DOCX
- B) XLSX
- C) PDF
- D) More than one of the above
- E) None of the above
- 61. Which of the following technologies allows for wireless communication between devices?
- A) Ethernet
- B) Bluetooth
- C) HDMI
- D) More than one of the above
- E) None of the above
- 62. What is the function of the system clock in a computer?
- A) Store data permanently
- B) Provide timing signals for synchronization
- C) Manage input and output operations
- D) More than one of the above
- E) None of the above
- **63.** Which of the following is an example of a cloud storage service?
- A) Dropbox
- B) Hard Drive
- C) USB Flash Drive
- D) More than one of the above
- E) None of the above
- 64. Which type of software is used to manage and manipulate databases?
- A) Spreadsheet software
- B) Database Management System (DBMS)
- C) Word processing software
- D) More than one of the above
- E) None of the above

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- 65. Which component of a computer system is used to connect various peripherals and expansion cards?
- A) Motherboard
- B) CPU
- C) Power Supply
- D) More than one of the above
- E) None of the above
- 66. Which type of virus is known to spread by replicating itself and inserting copies into other programs?
- A) Trojan
- B) Worm
- C) Virus
- D) More than one of the above
- E) None of the above
- 67. What is the main purpose of a firewall in a network?
- A) Manage network traffic
- B) Protect the network from unauthorized access
- C) Encrypt data
- D) More than one of the above
- E) None of the above
- 68. Which term describes a computer's ability to run multiple processes simultaneously?
- A) Multitasking
- B) Serial processing
- C) Batch processing
- D) More than one of the above
- E) None of the above
- 69. Which of the following is a characteristic of a mainframe computer?
- A) High processing power
- B) Large physical size
- C) Support for multiple users
- D) More than one of the above
- E) None of the above
- 70. Which programming language is known for its simplicity and is often used as a beginner's language?
- A) C++
- B) Python
- C) Assembly
- D) More than one of the above
- E) None of the above

- 71. Which file format is commonly used for compressing and storing large amounts of data in a single archive?
- A) ZIP
- B) GIF
- C) JPEG
- D) More than one of the above
- E) None of the above
- 72. Which component in a computer is used to temporarily store data and instructions during processing?
- A) Hard Drive
- B) RAM
- C) ROM
- D) More than one of the above
- E) None of the above
- 73. Which of the following is NOT a common type of network security attack?
- A) Phishing
- B) SQL Injection
- C) File Compression
- D) More than one of the above
- E) None of the above
- 74. Which programming language is known for its use in system and application software, including operating systems?
- A) JavaScript
- B) C
- C) PHP
- D) More than one of the above
- E) None of the above
- 75. Which component of a computer system is primarily responsible for managing system resources and hardware communication?
- A) Operating System
- **B)** Application Software
- C) Device Driver
- D) More than one of the above
- E) None of the above
- 76. Which of the following is a primary function of system software?
- A) Run applications
- B) Manage hardware resources
- C) Design graphics
- D) More than one of the above
- E) None of the above

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- 77. What is the primary role of a web server?
- A) To provide internet access
- B) To host and serve web pages
- C) To manage user accounts
- D) More than one of the above
- E) None of the above
- 78. Which of the following is a non-volatile memory technology used for long-term data storage?
- A) DRAM
- B) SRAM
- C) Flash Memory
- D) More than one of the above
- E) None of the above
- 79. Which file format is often used for documents that need to be viewed consistently across different platforms?
- A) DOCX
- B) PDF
- C) XLSX
- D) More than one of the above
- E) None of the above
- 80. Which type of computer architecture is known for having a large number of simple processors working in parallel?
- A) RISC
- B) CISC
- C) SIMD
- D) More than one of the above
- E) None of the above
- 81. Which programming language was developed by James Gosling and is widely used for web applications?
- A) C++
- B) Python
- C) Java
- D) More than one of the above
- E) None of the above
- 82. Which type of software is specifically designed to help users perform tasks such as word processing or spreadsheet management?
- A) System Software
- **B)** Application Software
- C) Utility Software
- D) More than one of the above
- E) None of the above

- 83. What is the purpose of a database management system (DBMS)?
- A) To manage network traffic
- B) To store and retrieve data
- C) To design hardware components
- D) More than one of the above
- E) None of the above
- 84. Which of the following is a widely used open-source operating system?
- A) Windows
- B) Linux
- C) macOS
- D) More than one of the above
- E) None of the above
- 85. Which of the following file formats is commonly used for vector graphics?
- A) BMP
- B) SVG
- C) PNG
- D) More than one of the above
- E) None of the above
- 86. What is the primary function of an interrupt in a computer system?
- A) To halt the CPU for maintenance
- B) To allow the CPU to respond to urgent tasks
- C) To perform regular calculations
- D) More than one of the above
- E) None of the above
- 87. Which of the following is a common feature of modern smartphones?
- A) Touchscreen
- B) Cellular Connectivity
- C) High-Resolution Cameras
- D) More than one of the above
- E) None of the above
- 88. What is the primary use of an SQL database?
- A) To store large files
- B) To manage and query structured data
- C) To create web pages
- D) More than one of the above
- E) None of the above

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- 89. Which technology is used to enable virtual machines to run on a single physical machine?
- A) Hypervisor
- B) Multithreading
- **C) Cloud Computing**
- D) More than one of the above
- E) None of the above
- 90. Which of the following best describes "cloud computing"?
- A) Accessing software and services over the internet
- B) Using local storage for data management
- C) Programming with low-level languages
- D) More than one of the above
- E) None of the above
- 91. Which component of a computer is responsible for cooling the CPU?
- A) Heat Sink
- B) RAM
- C) Hard Drive
- D) More than one of the above
- E) None of the above
- 92. Which of the following is an example of an early programming language designed for business applications?
- A) Fortran
- B) COBOL
- C) Ada
- D) More than one of the above
- E) None of the above
- 93. Which technology was introduced in the first generation of computers to control the computer's operations?
- A) Integrated Circuits
- B) Vacuum Tubes
- C) Transistors
- D) More than one of the above
- E) None of the above
- 94. Which type of computer system is typically used in large-scale scientific research and complex simulations?
- A) Personal Computer
- **B)** Supercomputer
- C) Workstation
- D) More than one of the above
- E) None of the above

- 95. Which protocol is used for sending emails over the internet?
- A) FTP
- B) SMTP
- C) HTTP
- D) More than one of the above
- E) None of the above
- 96. Which of the following file formats is used for raster graphics?
- A) SVG
- B) BMP
- C) EPS
- D) More than one of the above
- E) None of the above
- 97. What is the main purpose of a software development kit (SDK)?
- A) To develop hardware components
- B) To provide tools and libraries for software development
- C) To manage network connections
- D) More than one of the above
- E) None of the above
- 98. Which of the following devices is considered an input device?
- A) Monitor
- B) Keyboard
- C) Printer
- D) More than one of the above
- E) None of the above
- 99. Which of the following types of memory is used for fast, temporary storage while a computer is running?
- A) ROM
- B) RAM
- C) Flash
- D) More than one of the above
- E) None of the above
- 100. Which of the following is a type of computer memory that retains data even when the power is turned off?
- A) RAM
- B) ROM
- C) Cache
- D) More than one of the above
- E) None of the above

#### **Answer With Explanation**

1. Answer: A) Charles Babbage

Explanation: Charles Babbage is considered the "father of the computer" for his conceptualization of the first mechanical computer, the Analytical Engine, in the 1830s.

2. Answer: A) Intel

Explanation: The Intel 4004, the first microprocessor, was developed by Intel in 1971. It was a breakthrough in computing, integrating the CPU onto a single chip.

3. Answer: E) None of the above

Explanation: Dennis Ritchie developed the C programming language at Bell Labs in the 1970s, which is not listed among the options. Fortran, COBOL, and Pascal were developed earlier.

4. Answer: C) Keyboard

Explanation: A keyboard is an input device, as it allows the user to input data into the computer. A monitor and printer are output devices.

5. Answer: C) Binary code

Explanation: Binary code represents data in a digital form, using discrete values (0s and 1s). Analog signals, such as audio signals and radio waves, are continuous.

6. Answer: A) Central Processing Unit

Explanation: CPU stands for Central Processing Unit, which is the primary component of a computer that performs most of the processing inside a computer.

7. Answer: C) Flash

Explanation: Flash memory is non-volatile and can be electrically erased and reprogrammed. RAM and ROM are different types of memory with different characteristics.

8. Answer: C) Direct the operation of the processor Explanation: The Control Unit (CU) in a CPU manages and directs the operation of the processor by interpreting instructions from memory and executing them by coordinating the activities of other parts of the computer.

9. Answer: A) JPEG

Explanation: JPEG is a file format for images. Python is a programming language, and HTML is a markup language for creating web pages, not a file format.

10. Answer: A) First generation

Explanation: The first generation of computers (1940s-1950s) used vacuum tubes for processing and memory. Later generations transitioned to transistors, integrated circuits, and microprocessors.

11. Answer: A) Analog signals are continuous, while digital signals are discrete.

Explanation: Analog signals are continuous and can take any value within a range, while digital signals are discrete, represented by binary values (0s and 1s).

12. Answer: C) Hard Disk Drive

Explanation: A Hard Disk Drive (HDD) is hardware, not software. Operating systems and database management systems are types of software.

13. Answer: C) ALU (Arithmetic Logic Unit)

Explanation: The ALU is responsible for executing arithmetic and logical operations in a computer, such as addition, subtraction, and comparisons.

14. Answer: B) COBOL

Explanation: COBOL (Common Business-Oriented Language) was developed in the 1950s for business applications and is one of the earliest high-level programming languages.

15. Answer: C) To display or produce results from processed data

Explanation: The primary purpose of an output device is to display or produce the results from the processed data, such as on a monitor or printer.

16. Answer: C) MP4

Explanation: MP4 is a file format commonly used for compressing video data, whereas MP3 is used for audio, and JPEG is used for images.

17. Answer: C) Third generation

Explanation: The third generation of computers (1960s-1970s) introduced the use of integrated circuits (ICs), which replaced vacuum tubes and transistors.

18. Answer: C) To connect various components and allow data transfer

Explanation: The system bus connects various components of the computer (like the CPU, memory, and I/O devices) and allows data transfer between them.

19. Answer: C) Trojan horse

Explanation: A Trojan horse is a type of malware that pretends to be a legitimate program but performs malicious actions when executed. Firewalls and antivirus programs are designed to protect against malware.

20. Answer: B) RAM

Explanation: RAM (Random Access Memory) is used for temporary storage, and its contents are erased when the computer is turned off. ROM (Read-Only Memory) is non-volatile, and the hard drive is permanent storage.

21. Answer: B) Instruction Control Unit

Explanation: The Instruction Control Unit (ICU) is responsible for interpreting and executing instructions in the CPU, managing the flow of data and control signals.

22. Answer: A) DOCX

Explanation: DOCX is a file format commonly used for documents and presentations, specifically by Microsoft Word. JPEG is for images, and MP4 is for videos.

23. Answer: B) ARM

Explanation: ARM architecture is known for its Reduced Instruction Set Computing (RISC) design, which simplifies the instructions for faster processing. x86 and CISC (Complex Instruction Set Computing) are different architectures.

- 24. Answer: C) Executes arithmetic and logical operations Explanation: The Arithmetic Logic Unit (ALU) executes arithmetic and logical operations such as addition, subtraction, and comparisons.
- 25. Answer: B) Second generation

Explanation: The second generation of computers (1950s-1960s) used transistors instead of vacuum tubes, which made computers smaller, faster, and more reliable.

26. Answer: A) Read-Only Memory

Explanation: ROM stands for Read-Only Memory, which is non-volatile memory used to store firmware or permanent instructions that are not meant to be altered frequently.

27. Answer: A) Manage hardware resources

Explanation: The primary function of an operating system is to manage hardware resources, such as memory, CPU, and input/output devices, and provide an interface for users and applications.

28. Answer: B) ROM

Explanation: The BIOS (Basic Input/Output System) is typically stored in ROM (Read-Only Memory) because it needs to be permanent and non-volatile.

29. Answer: B) Output device

Explanation: A printer is an output device because it produces a physical copy of the data processed by the computer.

30. Answer: C) JavaScript

Explanation: JavaScript is a programming language widely used in web development for creating dynamic web content, such as interactive websites and web applications. C++ and Python are not typically used for this purpose.

31. Answer: C) Fetch, decode, and execute instructions
Explanation: The fetch-decode-execute cycle is the
fundamental process by which the CPU executes
instructions. It involves fetching an instruction from
memory, decoding it to determine what action to take,
and then executing the instruction.

32. Answer: B) Hard Disk Drive

Explanation: The Hard Disk Drive (HDD) is used for longterm data storage. It is non-volatile, meaning it retains data even when the power is turned off. RAM is used for temporary storage, and CPU cache is used for faster access to frequently used data.

33. Answer: C) Operating System

Explanation: The operating system is an example of system software. It manages hardware and software resources and provides a platform for running application software. Web browsers and word processors are application software.

34. Answer: B) To provide instructions for hardware components

Explanation: A device driver is software that allows the operating system to communicate with hardware components, providing the necessary instructions for their operation.

35. Answer: A) Integrated circuits

Explanation: The development of the first microcomputers was made possible by integrated circuits, which replaced vacuum tubes and transistors in earlier computer designs.

36. Answer: B) Faster data access speeds

Explanation: The main advantage of using solid-state drives (SSDs) over traditional hard disk drives (HDDs) is faster data access speeds. SSDs have no moving parts, allowing for quicker read and write operations compared to HDDs.

37. Answer: C) Python

Explanation: Python is a high-level programming language known for its readability and ease of use. Assembly and machine code are low-level languages.

38. Answer: B) Application software

Explanation: Application software is used to perform specific tasks such as word processing, creating spreadsheets, and making presentations. System software manages the hardware, while utility software performs maintenance tasks.

39. Answer: B) Analog signal

Explanation: Traditional analog telecommunication systems use analog signals, which vary continuously over time, to transmit voice and other data.

40. Answer: B) IBM

Explanation: IBM introduced the first commercially successful personal computer, the IBM PC, in 1981. Apple and Microsoft were not involved in the initial development of the IBM PC.

41. Answer: C) Cache Memory

Explanation: Cache memory is faster than RAM and is used to store frequently accessed data for quicker retrieval by the CPU. It is volatile, meaning it loses its data when power is turned off.

42. Answer: B) Basic Input/Output System

Explanation: BIOS stands for Basic Input/Output System. It is firmware that initializes and tests hardware during the booting process and provides a set of low-level routines for the operating system to interact with hardware.

43. Answer: B) C

Explanation: The C programming language is primarily used for system-level programming due to its efficiency and control over hardware resources. It is commonly used for writing operating systems and embedded systems.

44. Answer: B) Control hardware and manage system resources

Explanation: The kernel of an operating system is responsible for controlling hardware and managing system resources like memory, CPU time, and input/output devices. It acts as an intermediary between hardware and software.

45. Answer: C) Firewall

Explanation: A firewall is not a type of malware. It is a security system designed to protect a network by filtering incoming and outgoing traffic. Viruses and worms are examples of malware.

46. Answer: B) To identify and locate devices on a network Explanation: An IP address is used to identify and locate devices on a network. It enables communication between devices by providing a unique identifier for each device on the network.

47. Answer: B) PNG

Explanation: PNG (Portable Network Graphics) is a file format that uses lossless compression for images, meaning no data is lost during compression. JPEG uses lossy compression, which reduces image quality to save space.

48. Answer: C) Fourth generation

Explanation: The fourth generation of computers is characterized by the use of microprocessors, which are integrated circuits containing all the components of a CPU on a single chip.

49. Answer: A) Cache Memory

Explanation: Cache memory is used to store frequently accessed data, speeding up retrieval and improving system performance by reducing the time needed to access data from slower memory sources like RAM or the hard drive.

50. Answer: B) Multiple processing units on one chip Explanation: A multi-core processor has multiple processing units (cores) on a single chip, allowing it to perform multiple tasks simultaneously, improving performance and efficiency, especially for parallel processing tasks.

51. Answer: A) MATLAB

Explanation: MATLAB is a programming language and environment designed for statistical analysis, data visualization, and mathematical computing. It is widely used in engineering, science, and economics.

52. Answer: B) I/O Control Unit

Explanation: The I/O Control Unit directs the flow of data between the CPU and other components, specifically the input and output devices, ensuring proper communication and data transfer.

#### 53. Answer: D) More than one of the above

Explanation: All of the listed options (Star, Mesh, and Tree) are types of network topologies. Therefore, "More than one of the above" is the correct answer.

#### 54. Answer: A) Clock

Explanation: The clock in a computer system is responsible for coordinating the timing of all activities by generating clock pulses that synchronize operations across the CPU and other components.

#### 55. Answer: B) Agile Model

Explanation: The Agile Model emphasizes incremental and iterative progress, with work divided into small, manageable units called iterations or sprints. This allows for flexibility and continuous improvement.

#### 56. Answer: C) MP3

Explanation: MP3 is a widely used audio file format that compresses audio data without significantly compromising sound quality, making it popular for music and other audio content.

#### 57. Answer: B) Bell Labs

Explanation: Unix was developed by Bell Labs (AT&T's research and development subsidiary) in the late 1960s and early 1970s. It has influenced many operating systems, including Linux and macOS.

#### 58. Answer: B) PHP

Explanation: PHP is a server-side scripting language commonly used for web development. It is widely used for creating dynamic web pages and interacting with databases.

#### 59. Answer: A) Binary Digit

Explanation: A "bit" stands for Binary Digit, which is the smallest unit of data in computing, representing either a 0 or a 1 in binary code.

#### 60. Answer: B) XLSX

Explanation: XLSX is the file format used for spreadsheets in Microsoft Excel. It is a part of the Office Open XML standard and is widely used for data storage, analysis, and manipulation.

#### 61. Answer: B) Bluetooth

Explanation: Bluetooth is a wireless communication technology that allows devices to exchange data over short distances using radio waves. It is commonly used for connecting peripherals like headphones, keyboards, and smartphones.

62. Answer: B) Provide timing signals for synchronization Explanation: The system clock in a computer provides the necessary timing signals to synchronize the operations of the CPU and other components, ensuring that processes occur in the correct sequence.

#### 63. Answer: A) Dropbox

Explanation: Dropbox is a cloud storage service that allows users to store files online and access them from any device with an internet connection. It is an example of cloud storage, unlike hard drives or USB flash drives, which are local storage devices.

64. Answer: B) Database Management System (DBMS) Explanation: A Database Management System (DBMS) is software designed to manage, store, and manipulate databases. It provides tools for creating, updating, and querying databases, ensuring data integrity and security.

#### 65. Answer: A) Motherboard

Explanation: The motherboard is the main circuit board in a computer system that connects various peripherals, expansion cards, and other components. It provides the necessary connections for communication between them.

#### 66. Answer: C) Virus

Explanation: A virus is a type of malware that spreads by replicating itself and inserting copies into other programs or files. It often requires user interaction to activate and can cause harm to the system.

67. Answer: B) Protect the network from unauthorized access

Explanation: A firewall is a network security system designed to monitor and control incoming and outgoing network traffic. Its primary function is to protect the network from unauthorized access and potential threats.

#### 68. Answer: A) Multitasking

Explanation: Multitasking refers to a computer's ability to run multiple processes simultaneously. It allows users to perform several tasks at once, such as running multiple applications or processes.

69. Answer: D) More than one of the above Explanation: Mainframe computers are characterized by high processing power, large physical size, and the ability to support multiple users simultaneously. They are typically used for large-scale data processing and enterprise applications.

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# **By: Infee Tripathi**

70. Answer: B) Python

Explanation: Python is known for its simplicity and readability, making it an ideal language for beginners. It is widely used for teaching programming and for developing applications in various fields.

71. Answer: A) ZIP

Explanation: ZIP is a common file format used for compressing and archiving large amounts of data. It reduces file size and allows multiple files to be stored in a single compressed archive.

72. Answer: B) RAM

Explanation: RAM (Random Access Memory) is used to temporarily store data and instructions that are actively being processed by the CPU. It is volatile memory, meaning it loses its content when the power is turned off.

73. Answer: C) File Compression

Explanation: File compression is not a type of network security attack. Phishing and SQL injection are examples of network security attacks, while file compression is a technique used to reduce the size of files for storage or transfer.

74. Answer: B) C

Explanation: C is a programming language commonly used for system and application software, including operating systems. It provides low-level access to memory and hardware, making it ideal for system-level programming.

75. Answer: A) Operating System

Explanation: The operating system is responsible for managing system resources, such as memory, processing power, and hardware communication. It acts as an intermediary between the hardware and application software.

76. Answer: B) Manage hardware resources

Explanation: The primary function of system software is to manage hardware resources and provide a platform for running application software. It includes the operating system and utility programs.

77. Answer: B) To host and serve web pages

Explanation: A web server's primary role is to host and serve web pages to users. It processes requests from clients (such as web browsers) and sends back the appropriate web pages.

78. Answer: C) Flash Memory

Explanation: Flash memory is a non-volatile memory technology commonly used for long-term data storage. It retains data even when the power is turned off, and is used in devices like USB drives, SSDs, and memory cards.

79. Answer: B) PDF

Explanation: PDF (Portable Document Format) is often used for documents that need to be viewed consistently across different platforms. It preserves the formatting and layout of the document regardless of the device or operating system.

80. Answer: C) SIMD

Explanation: SIMD (Single Instruction, Multiple Data) architecture is known for having a large number of simple processors working in parallel. It processes multiple data elements simultaneously using the same instruction, making it efficient for tasks like image and signal processing.

81. Answer: C) Java

Explanation: Java was developed by James Gosling and is widely used for web applications, mobile applications, and enterprise-level software due to its platform independence and robust libraries.

82. Answer: B) Application Software

Explanation: Application software is designed to help users perform specific tasks, such as word processing, spreadsheet management, and graphic design.

Examples include Microsoft Word and Excel.

83. Answer: B) To store and retrieve data

Explanation: The purpose of a Database Management System (DBMS) is to store, retrieve, and manage data efficiently. It allows users to create, read, update, and delete data in databases.

84. Answer: B) Linux

Explanation: Linux is a widely used open-source operating system, known for its flexibility, security, and use in servers, desktops, and embedded systems.

85. Answer: B) SVG

Explanation: SVG (Scalable Vector Graphics) is a file format commonly used for vector graphics. Unlike raster graphics, vector graphics can be scaled without losing quality.

- 86. Answer: B) To allow the CPU to respond to urgent tasks Explanation: An interrupt is used to temporarily halt the CPU's current activities and allow it to respond to more urgent tasks or events, such as input from the user or a hardware failure.
- 87. Answer: D) More than one of the above Explanation: Modern smartphones typically feature touchscreens, cellular connectivity, and high-resolution cameras, among other capabilities.
- 88. Answer: B) To manage and query structured data Explanation: SQL (Structured Query Language) databases are primarily used to manage and query structured data, typically stored in tables with rows and columns.
- 89. Answer: A) Hypervisor

Explanation: A hypervisor is used to enable virtual machines to run on a single physical machine. It manages the allocation of resources to each virtual machine, allowing multiple operating systems to run concurrently.

90. Answer: A) Accessing software and services over the internet

Explanation: Cloud computing refers to accessing software, services, and data over the internet rather than from local storage or servers. It includes services like cloud storage, cloud applications, and virtualized computing resources.

91. Answer: A) Heat Sink

Explanation: A heat sink is a component used to cool the CPU by dissipating heat generated during processing. It works by increasing the surface area for heat transfer to the surrounding air.

92. Answer: B) COBOL

Explanation: COBOL (Common Business-Oriented Language) was designed for business applications and is known for its use in financial, administrative, and business data processing.

93. Answer: B) Vacuum Tubes

Explanation: The first generation of computers used vacuum tubes to control operations. Vacuum tubes were replaced by transistors in the second generation for more efficient processing.

94. Answer: B) Supercomputer

Explanation: Supercomputers are used for large-scale scientific research, simulations, and complex computations due to their extremely high processing power.

95. Answer: B) SMTP

Explanation: SMTP (Simple Mail Transfer Protocol) is the protocol used for sending emails over the internet.

96. Answer: B) BMP

Explanation: BMP (Bitmap) is a file format used for raster graphics, which are images made up of a grid of pixels.

97. Answer: B) To provide tools and libraries for software development

Explanation: A Software Development Kit (SDK) provides developers with the necessary tools, libraries, and documentation to create software applications for specific platforms.

98. Answer: B) Keyboard

Explanation: A keyboard is an input device used to enter data and commands into a computer.

99. Answer: B) RAM

Explanation: RAM (Random Access Memory) is used for fast, temporary storage while a computer is running. It holds data and instructions that are actively used by the CPU during processing.

100. Answer: B) ROM

Explanation: ROM (Read-Only Memory) retains data even when the power is turned off. It is non-volatile memory, unlike RAM, which is volatile and loses data when power is lost.