

General Instructions: Choose the best answer/s from among the choices given.

1. What are the five hardware components of a computer?
 - ☐ Application Software
 - ☐ Processor
 - ☐ Storage
 - ☐ Input devices
 - ☐ Operating System
 - ☐ Memory
 - ☐ Output devices
2. This refers to the main circuit board where the memory, processor, and other peripherals are built into.
 - ☐ Chassis
 - ☐ Chipset
 - ☐ Motherboard
 - ☐ Expansion boards
3. This circuit controls the communication between the processor and the memory, between the processor and the storage, and between the processor and other peripherals.
 - ☐ Chipset
 - ☐ Power supply
 - ☐ Cache
 - ☐ System board
4. This is an external component of the laptop supplies it with electricity to run the machine.
 - ☐ Power supply
 - ☐ AC adapter
 - ☐ CMOS battery
 - ☐ Hard disk drive
5. This type of bus interface connects the hard disk drive to the motherboard.
 - ☐ CMOS
 - ☐ PCI
 - ☐ SATA
 - ☐ IDE
6. A single chip processor with two or more cores.
 - ☐ Multicore processor
 - ☐ Dual core processor
 - ☐ Micro processor
 - ☐ Quad core processor

7. This component inside the processor coordinates all operations inside the computer, including fetching instructions, interpreting the instructions, and initiating the appropriate actions to carry out the instruction.
- ☐ Control unit
 - ☐ Arithmetic logic unit
 - ☐ Registers
 - ☐ Cache
8. Refers to the limited capacity but very fast temporary storage inside the processor
- ☐ Registers
 - ☐ SSD
 - ☐ ROM
 - ☐ RAM
9. What is the correct sequence of the machine cycle?
- ☐ Decode, execute, fetch, store
 - ☐ Fetch, decode, execute, store
 - ☐ Fetch, decode, store, execute
 - ☐ Fetch, store, decode, execute
10. This component on the motherboard generates periodic pulses to control the timing and synchronization of all computer operations.
- ☐ System clock
 - ☐ CMOS battery
 - ☐ Cache
 - ☐ Chipset
11. The faster the clock speed, the more instructions the processor can execute per second.
- ☐ True
 - ☐ False
 - ☐ Maybe
 - ☐ Depends on the motherboard
12. Which of the following items are stored in the main memory?
- ☐ Operating system
 - ☐ Data being processed
 - ☐ Clock ticks
 - ☐ Application software
13. This is used to refer to a memory location in the physical memory
- ☐ Port address
 - ☐ Gigabyte
 - ☐ Memory address
 - ☐ Memory number
14. Contains permanently written data and instructions for a computer's mobile device

- ☐ SSD
- ☐ RAM
- ☐ Firmware
- ☐ HDD

15. This type of RAM uses a capacitor-resistor pair to store 1-bit of data

- ☐ SRAM
- ☐ SDRAM
- ☐ DRAM
- ☐ EPROM

16. This type of cache is available only if the processor has a an ATC L2 cache

- ☐ 64-bit Registers
- ☐ 32-bit Registers
- ☐ L1 cache
- ☐ L3 cache

17. Refers to the amount of time it takes for the processor to read data or instructions from the main memory

- ☐ Memory access time
- ☐ Latency
- ☐ Storage access time
- ☐ Memory read time

18. This type of memory module has pins on both sides of the circuit board that are disconnected from each other.

- ☐ SIMM
- ☐ DIMM
- ☐ EPROM
- ☐ EEPROM

19. 2^{30} is ...

- ☐ Megabyte
- ☐ Gigabyte
- ☐ Terabyte
- ☐ Petabyte

20. Refers to the unit of measurement for data transfer rate

- ☐ Bytes per second
- ☐ Bits per second
- ☐ Milliseconds
- ☐ Hertz

21. Which of the following has the fastest data transfer rate?

- ☐ SSD
- ☐ HHD

- ☐ Memory cards
- ☐ Optical discs

22. Refers to the number of bits stored in an area of a medium

- ☐ Density
- ☐ Robustness
- ☐ Latency
- ☐ Throughput

23. What is the typical size of a sector?

- ☐ 128 bytes
- ☐ 256 bytes
- ☐ 512 bytes
- ☐ 1024 bytes

24. A type of memory that is made up entirely of electronic components and no moving parts, more durable and shock-resistant than other types of media

- ☐ Magnetic disks
- ☐ Optical discs
- ☐ Solid state media
- ☐ Cloud

25. A type of keyboard that uses a thin rubber or silicon layer with individual domes per key that collapses when pressed

- ☐ Dome switch keyboard
- ☐ Mechanical keyboard
- ☐ Ergonomic keyboard

26. Refer to the technology that enables a flat panel display to function as both input and output device

- ☐ Touchpad
- ☐ Touchscreen
- ☐ Trackball
- ☐ Stylus

27. A technology that detects specific patterns of bars using a laser beam

- ☐ Optical mark reader
- ☐ Video camera
- ☐ Optical scanner
- ☐ Code scanner

28. Which of the following is an impact printer?

- ☐ Laser printer
- ☐ Dot matrix
- ☐ 3D printer
- ☐ Thermal printer

29. A type of printer that uses a process called additive manufacturing
- ☐ Plotters
 - ☐ 3D printer
 - ☐ Thermal printer
 - ☐ Braille printer
30. Which of the following are the tasks of an operating system
- ☐ Manages the computer's hardware resources
 - ☐ Schedules and coordinates tasks
 - ☐ Provides synchronization for all processor related activities
 - ☐ Provides consistent means for the application software to work with the processor
 - ☐ Processes voice-related and gesture-related commands
 - ☐ Performs arithmetic and logical operations on data
31. What are the three layers of an operating system
- ☐ Application layer
 - ☐ Service layer
 - ☐ User interface layer
 - ☐ Kernel
 - ☐ Services layer
 - ☐ Hardware interface layer
 - ☐ Core
32. This program is run by the computer to ensure that essential peripheral devices are attached to the computer and are operational
- ☐ BIOS
 - ☐ POST
 - ☐ Config System
 - ☐ Dual boot
33. This interface accepts user commands represented by short keywords
- ☐ Graphical user interface
 - ☐ Command line interface
 - ☐ Motion capture interface
 - ☐ Multipoint interface
34. Refers to the part of the secondary storage that functions as an extension of the primary memory
- ☐ Extended RAM
 - ☐ Cache
 - ☐ Virtual Memory
 - ☐ Registers
35. A type of operating system that is used specifically for networking and server setup
- ☐ Network OS

- ☐ Desktop OS
- ☐ Mobile OS
- ☐ Real-time OS

36. Which of the following are examples of Desktop OS

- ☐ Google Android
- ☐ Contiki OS
- ☐ Windows
- ☐ MacOS
- ☐ Apple iOS
- ☐ Windows Mobile
- ☐ Server Linux

37. Which is not a characteristic of a Network OS

- ☐ Serves multiple users simultaneously
- ☐ Runs on servers and mainframes
- ☐ Runs on machines that performs repetitive tasks
- ☐ Can be configured to provide services like web hosting, file hosting, etc.

38. A utility program that allows the user to enter different modes of operation

- ☐ Display
- ☐ Power management
- ☐ Defragmentation
- ☐ Backup and restore

39. A utility program that makes large files more compact to occupy less storage space and allows for easier transport over the network

- ☐ Application management
- ☐ Backup and restore
- ☐ File compression
- ☐ System maintenance

40. Refers to the application that allows the OS to control computer hardware

- ☐ Device driver
- ☐ OS scheduler
- ☐ BIOS
- ☐ POST

41. The purpose of setting up a computer network is to share computing resources, which includes equipment like printer, files, and internet connections.

- ☐ True
- ☐ False
- ☐ Maybe

42. Bandwidth is measured in

- ☐ Bits per second

- ☐ Bytes per second
- ☐ Megahertz
- ☐ Gigahertz

43. A types of transmission media that uses light-conducting filaments

- ☐ Copper cable
- ☐ Coaxial cable
- ☐ Fiber optic cable

44. This network device provides a centralized and dedicated file storage on the network

- ☐ File server
- ☐ Network Attached Storage
- ☐ Storage Area Network
- ☐ Print server

45. A network device that provides wireless access to a local network

- ☐ Switch
- ☐ Wireless access point
- ☐ Router
- ☐ Firewall

46. Refers to a set of rules that devices follow to ensure compatibility and enable communication between devices over the network

- ☐ Protocol
- ☐ Addressing
- ☐ Hierarchy
- ☐ Network

47. This logical address is 32-bits in length

- ☐ MAC address
- ☐ IPv4 address
- ☐ IPv6 address
- ☐ Subnet Mask

48. The Internet is owned by a group of individuals who organizes and specifies standards to maintain the Internet's structure and communication hierarchy.

- ☐ True
- ☐ False
- ☐ I do not know

49. A type of broadband internet connection that uses radio frequency for data transmission

- ☐ DSL
- ☐ Cable
- ☐ Fiber
- ☐ Mobile