# Final Exam Questions FALL 2025

1. Power supply converts 115 V AC or 220 V AC into_____.
   a. 3V DC, 4.3V DC, 5V DC
   b. 5.3V DC, 6V DC, 14V DC
   c. 1V DC, 2.3V DC, 3V DC
   d. 3.3V DC, 5V DC, 12V DC

   The correct answer is: 3.3V DC, 5V DC, 12V DC

2. _____ are attached to a computer to expand its capabilities
   a. Audio Devices
   b. Peripheral Devices
   c. Communication Devices
   d. Video Devices

   The correct answer is: Peripheral Devices

3. When a computer powers on but there is **no display and no POST beep**, which issue could be related to the processor:
   a. Faulty CPU installation or missing thermal paste
   b. Faulty keyboard connection
   c. Corrupted operating system
   d. Loose monitor cable

   The correct answer is: Faulty CPU installation or missing thermal paste

4. Which device allows you to enter data and instructions into a computer?
   a. CPU
   b. Input device
   c. ALU
   d. Output device

   The correct answer is: Input device

5. CMOS stands for____
   a. Complementary Metal Oxide Semiconductor
   b. Converted Metal Oxide System
   c. Converted Metal Oxide Semiconductor
   d. Complementary Metal Oxide System

   The correct answer is: Complementary Metal Oxide Semiconductor

6. Conversion of decimal number 60 to its binary number equivalent is
   a. 00111000
   b. 00111100
   c. 00110011
   d. 00111101

   The correct answer is: 00111100

7. A laptop powers on but the screen remains dark even though you can faintly see the desktop under a light. What is the most likely cause?
   a. Faulty hard drive
   b. Broken motherboard
   c. Defective backlight or inverter

d. Corrupted video driver

The correct answer is: Defective backlight or inverter

8. In the CPU, which of the following is responsible for doing math _____.
    a. Control Unit
    b. Arithmetic and Logical Unit
    c. User
    d. Output

    The correct answer is: Arithmetic and Logical Unit

9. The two widely used forms of modern RAM are_____.
    a. CD RAM and Parallel RAM
    b. Parallel RAM and Static RAM
    c. Electronic RAM and Dynamic RAM
    d. Static RAM and Dynamic RAM

    The correct answer is: Static RAM and Dynamic RAM

10. A-F system is used in which of the following number systems?
    a. Octal
    b. Decimal
    c. Binary
    d. Hexa-Decimal

    The correct answer is: Hexa-Decimal

11. Memory Physical slots SODIMM stands for_____.
    a. Sign Over DIMM
    b. Solid Outline DIMM
    c. Small Outline DIMM
    d. Small Over DIMM

    The correct answer is: Small Outline DIMM

12. Which one based on semiconductor?
    a. None of the choices
    b. CD
    c. Floppy
    d. Flash

    The correct answer is: Flash

13. For converting a number in decimal number system to its binary equivalent, remainders are recorded after successive division of the number by
    a. 10
    b. 3
    c. 2
    d. 11

    The correct answer is: 2

14. The decimal equivalent of 11100 is
    a. 30
    b. 27
    c. 29
    d. 28

    The correct answer is: 28

15. Convert (56)10 into a binary number
    a. 101001
    b. 111001
    c. 101000
    d. 111000
    The correct answer is: 111000
16. What is the primary function of an output device?
    a. Input data into the computer
    b. Store data for future use
    c. Display or present data to the user
    d. Transfer data between devices
    The correct answer is: Display or present data to the user
17. Which of the following is the binary equivalent of the decimal number 35?
    a. 100101
    b. 100011
    c. 100001
    d. 100010
    The correct answer is: 100011
18. Which of the following falls under SDRAM_____.
    a. DIMM
    b. RAM
    c. DDR4
    d. ROM
    The correct answer is: DDR4
19. HDD stands for _____.
    a. Has Drive Disk
    b. Hard Drive Disk
    c. Has Disk Drive
    d. Hard Disk Drive
    The correct answer is: Hard Disk Drive
20. Which of the following is not a benefit of laptop design?
    a. Portability
    b. Desktop replacement
    c. Processor Performance
    d. Built-in touchpad.
    The correct answer is: Processor Performance.
21. DIMM stands for_____.
    a. Dual Inline Memory Module
    b. Design Inline Memory Money
    c. Dynamin Inline Memory Money
    d. Drive Inline Memory Module.
    The correct answer is: Dual Inline Memory Module
22. Which of the following is not a positional number system?
    a. Octal Number System
    b. Hexadecimal Number System

c. Roman Number System

d. Binary Number System

The correct answer is: Roman Number System

23. What will be the decimal equivalent for binary number 11001110?

a. 135

b. 206

c. 115

d. 200

The correct answer is: 206

24. Convert decimal to binary (48)10

a. 101001

b. 111001

c. 101000

d. 110000

The correct answer is: 110000

25. Impact printers create pictures and figures by: _____.

a. Striking a ribbon or paper

b. Without any connections

c. Laser

d. Heat and pressure

The correct answer is: Striking a ribbon or paper

26. A device that allows users to feed data into a computer for analysis and storage and to give commands to the computer is called _____.

a. Memory

b. Output device

c. Input device

d. Both Input and Output

The correct answer is: Input device

27. What is the unit of power?_____.

a. Hertz

b. Watts

c. Volts

d. Coulomb

The correct answer is: Watts

28. Which part of the computer fetches, decodes, and executes the programming instructions? _____.

a. Printer

b. Case

c. PC

d. Central Processing Unit

The correct answer is: Central Processing Unit

29. SSD stands for _____.

a. Solid Solide Drive

b. State State Drive

c. State Solide Drive

    d. Solid State Drive

    The correct answer is: Solid State Drive

30. The main ATX motherboard power connector typically consists of _____ pins.

    a. 22

    b. 23

    c. 24

    d. 20

    The correct answer is: 24

31. How is the size of RAM normally measured nowadays

    a. In MB

    b. In GB

    c. In KB

    d. With a tape measure

    The correct answer is: In GB

32. What kind of peripheral devices is a hard disk drive?

    a. Storage device

    b. Printer

    c. Input device

    d. Output device

    The correct answer is: Storage device

33. RAM stands for_____.

    a. Read Only Memory

    b. Random Access Memory

    c. Random Analogue Memory

    d. Random Origin Memory

    The correct answer is: Random Access Memory

34. _____are output devices.

    a. Barcode Reader and Scanner

    b. Printer and Speaker

    c. Monitor and Microphone

    d. Touchpad and Printer

    The correct answer is: Printer and Speaker

35. Which laptop input device is a flat surface that you can slide across with your finger to control the cursor?

    a. Point stick

    b. Mouse

    c. Trackball

    d. Touchpad.

    The correct answer is: Touchpad

36. ROM stands for _____.

    a. Read Origin Memory

    b. Random Access Memory

    c. Read Only Memory

    d. Random Origin Memory

    The correct answer is: Read Only Memory

37. ____ is used to provide power for internal disk drives.

a.  Molex connector

b.  SATA connector

c.  HDMI cable

d.  USB drive

The correct answer is: Molex connector

38. POST stands for

a.  Power On Self Test

b.  Power On Switch Turnoff

c.  Problem On Self Test

d.  Power On Switch Turn-on

The correct answer is: Power On Self Test

39. It can accept and calculate two independent sets of instructions simultaneously

a.  Simulation

b.  Hyper threading

c.  Throttling

d.  Single process system.

The correct answer is: Hyper threading.

40. What is the main disadvantage of an integrated system board?

a.  It is difficult to upgrade RAM modules

b.  It consumes more power than modular boards.

c.  When one component fails, the entire board must be replaced.

d.  It requires external cooling for stability

The correct answer is: When one component fails, the entire board must be replaced

41. Which of the following statements about CPU cache is true?

a.  L2 cache has higher priority than L1 cache.

b.  L1 cache has higher priority than L2 cache.

c.  Both L1 and L2 cache must be located outside the CPU.

d.  L2 cache must be located inside the CPU.

The correct answer is: L1 cache has higher priority than L2 cache.

42. The process by which the processor slows down to conserve power is officially called as

a.  Disengaging

b.  Under-clocking

c.  Throttling

d.  Cooling

The correct answer is: Throttling

43. If the operating system fails to load and displays a "Missing Operating System" error, what is the most likely cause?

a.  Incorrect boot order or disconnected drive

b.  Faulty power supply

c.  Defective keyboard

d.  CPU overheating

The correct answer is: Incorrect boot order or disconnected drive

44. Which of the following interfaces allows audio to be sent out over the same cabling infrastructure as video?

a.  Composite

b.  HDMI

  c. DVI

  d. VGA

  <span style="color:blue">The correct answer is: HDMI</span>

45. Which statement correctly describes the difference between Server OS and Desktop OS**?**

  a. None of the choices

  b. Both provide identical services

  c. A Server OS provides network and data services to clients

  d. A Desktop OS provides network and data services to clients

  <span style="color:blue">The correct answer is: A Server OS provides network and data services to clients</span>

46. Which of the following represents the two main categories of computer cables?

  a. VGA cable and DVI cable

  b. Ethernet cable and SATA cable

  c. DC cable and AC cable

  d. Data cable and Power cable

  <span style="color:blue">The correct answer is: Data cable and a Power cable</span>

47. Which computer component houses bays, slots, and connectors for drives, circuit boards, and I/O devices

  a. Computer Case

  b. Printer

  c. Central Processing Unit

  d. Operating System

  <span style="color:blue">The correct answer is: Computer Case</span>

48. What is the primary function of a modem?

  a. To convert digital signals to analog and vice versa for Internet communication

  b. To store Internet browsing history

  c. To manage wired LAN connections

  d. To encrypt data before storage

  <span style="color:blue">The correct answer is: To convert digital signals to analog and vice versa for Internet communication</span>

49. What is the basic storage unit used in drives.

  a. None of the other choices

  b. Security

  c. Booting process

  d. Sector

  <span style="color:blue">The correct answer is: Sector</span>

50. Which of the following is true about the clock speed?

  a. Clock speed is determined by the CPU seller

  b. Clock speed is determined by the CPU user

  c. Clock speed is determined by the system administrator

  d. Clock speed is determined by the CPU manufacturer

  <span style="color:blue">The correct answer is: Clock speed is determined by the CPU manufacturer</span>

51. All data-handling components and optional data devices are connected to the external data bus.

  a. False

  b. True

  <span style="color:blue">The correct answer is: True</span>

52. Which of the following will you require to hear music on your computer?

a. Video Card

b. Joy Stick

c. Mouse

d. Sound Card

The correct answer is: Sound Card

53. Which of these is the speed of the CPU?

a. Internal clock speed

b. External clock speed

c. System bus speed

d. FSB

The correct answer is: Internal clock speed

54. How are SODIMMs installed on a laptop?

a. On a 90-degree angle

b. By pressing straight down

c. On a 45-degree angle

d. Into a ZIF socket

The correct answer is: On a 45-degree angle

55. Which method can be used to reset a forgotten BIOS supervisor password?

a. Access the BIOS by pressing F2.

b. Remove the CMOS battery.

c. Extract the .EXE contents to a floppy.

d. Remove the P1 connector

The correct answer is: Remove the CMOS battery.

56. It is a block of metal made to sit right on top of the CPU with metal fins and uses conduction to direct heat away from the CPU.

a. Heat Sink

b. Thermal Compound

c. Fans

d. Cooling Liquid

The correct answer is: Heat Sink.

57. It is the electrical interface between the CPU and the motherboard and is attached directly to the motherboard and houses the CPU.

a. Socket

b. Fans

c. Buses

d. Interface

The correct answer is: Socket.

58. Most of the functions of CPU is done by?

a. Serial Buses

b. Data bus

c. Chipset.

d. Motherboard

The correct answer is: Chipset

59. Mouse is an _____device?

a. Process

b. Input and output

c. Input

d. Output

The correct answer is: Input

60. Name any two storage device?

a. Hard Disk Drive, CD-ROM Drive

b. Hard disk drive, virtual drive

c. Floppy drive, expansion drive

d. Hard disk drive, Network drive

The correct answer is: Hard Disk Drive, CD-ROM Drive

61. Which of the following video connectors uses a mini-DIN 4-pin or 7-pin connector for transmitting analog video signals?

a. VGA

b. DVI

c. S-Video

d. HDMI

The correct answer is: S-Video

62. The most common interfaces which are used in PCs today?

a. Parallel, Serial, USB, IEEE1394 only

b. Serial, Parallel only

c. USB, HDMI, Bluetooth.

d. USB, Infrared only

The correct answer is: USB, HDMI, Bluetooth.

63. Active heat sinks incorporate which of the following into their design?

a. Grease

b. Gas

c. Fans

d. Water

The correct answer is: Fans

64. The process by which the processor slows down to conserve power is officially called?

a. Throttling

b. Cooling

c. Underclocking

d. Disengaging

The correct answer is: Throttling

65. The spine of the computer is _____

a. Memory

b. Motherboard

c. Processor.

d. Hard disk

The correct answer is: Motherboard

66. What is the main function of a network switch?

a. To connect multiple networks together

b. To assign IP addresses to network devices

c. To connect multiple devices within the same network

d.  To convert wired connections into wireless signals

The correct answer is: To connect multiple devices within the same network

67. Which component is responsible for connecting the memory controller hub (Northbridge) to the processor.

a.  Cache
b.  CPU
c.  Front Side Bus (FSB)
d.  Socket

The correct answer is: Front Side Bus (FSB)

68. To implement a secure boot process, which device should be listed first in the Boot Device Priority screen?

a.  Floppy drive
b.  USB
c.  CD-ROM
d.  Hard drive

The correct answer is: Hard drive

69. What are the two main types of Laptop memories?

a.  SODIMM and Micro DIMM.
b.  DIMM and DD3
c.  DDR and DDR2
d.  SIMM and DIMM

The correct answer is: SODIMM and Micro DIMM

70. What do storage units provide?

a.  A place to type data
b.  A place to print information.
c.  A place to store information and instructions when they are not being used in memory

The correct answer is: A place to store information and instructions when they are not being used in memory

71. What is a possible reason for having black lines show up on printouts?

a.  Damaged transfer corona wire
b.  Scratch on the laser printer drum
c.  Damaged roller
d.  Scratch on the fusing assembly

The correct answer is: Scratch on the laser printer drum

72. VGA stands for:

a.  Versatile Graphic Audio
b.  Video Graphic Audio
c.  Video Graphic Array

The correct answer is: Video Graphic Array

73. What is a possible symptom of a failing CPU?

a.  BIOS reports low temperatures within the case.
b.  CPU is beyond the recommended voltage range.
c.  Computer will not boot.
d.  Spyware is installed into the browser

The correct answer is: CPU is beyond the recommended voltage range

74. What is the main purpose of a storage device?

a.  To print hard copies in readable form

b. To save time while working on the computer

c. To sort information for later use

d. To store programs and data until they are needed

The correct answer is: To store programs and data until they are needed

75. Which of the following is not one of the stages of computing?

a. Heating

b. Input

c. Processing

d. Output

The correct answer is: Heating

76. Which printer contains a wheel that looks like a flower with raised letters and symbols on each petal?

a. LASER printers

b. Daisy wheel printers

c. Bubble jet printers

d. Dot matrix printers

The correct answer is: Daisy wheel printers

77. What is the primary function of a Wireless Access Point (WAP)?

a. To convert wired signals to wireless for network access

b. To route packets between different networks

c. To store Wi-Fi passwords

d. To manage firewall rules.

The correct answer is: To convert wired signals to wireless for network access.

78. Which of the following are examples of display devices?

a. DEL, CDL

b. LED, DC

c. LCD, CRT

d. VCD, CTR.

The correct answer is: LCD, CRT.

79. _____ controls and directs all activities in a computer system

a. CPU

b. Power Supply

c. Motherboard

d. Memory

The correct answer is: CPU

80. POST is a series of system checks performed by the _____

a. BIOS

b. Motherboard

c. OS

d. CPU

The correct answer is: BIOS

81. DIMM and RIMM are the form of _____

a. BIOS

b. CPU

c. Motherboard

d. Memory Package

The correct answer is: Memory Package.

82. VGA based video technologies use what type of signal between the adaptor and monitor?
   a. Compressed
   b. Digital
   c. Composite
   d. Analog

   The correct answer is: Analog

83. What is the function of the LASER in the LASER printer?
   a. It charges the paper so it will attract toner
   b. It heats up the toner so it adheres to the page
   c. It cleans the drum before a page is printed
   d. It creates an image of the page on the drum

   The correct answer is: It creates an image of the page on the drum

84. What is the maximum speed of USB 2.0 in Mbps?
   a. 60
   b. 1.5
   c. 12
   d. 480

   The correct answer is: 480

85. What is the physical component where data are stored in a HDD?
   a. Read/write head
   b. Cluster
   c. Sector
   d. Platter

   The correct answer is: Platter

86. What kind of device uses unique physical traits of the user to authenticate their access to a secure system or location?
   a. Biometric device
   b. Touch screen
   c. Keyboard
   d. Barcode reader

   The correct answer is: Biometric device

87. Conversation of binary number 00001100 to decimal number is
   a. 22
   b. 12
   c. 24
   d. 208

   The correct answer is: 12

88. What type of expansion slot is preferred today for high-performance graphics adapters?
   a. PCIe
   b. ISA
   c. PCI
   d. AGP

   The correct answer is: PCIe

89. What is the main difference between an ATX and Mini-ATX motherboard?
    a.  Mini-ATX has more expansion slots than ATX
    b.  Mini-ATX supports higher-end CPUs than ATX
    c.  Mini-ATX is smaller in size and offers fewer expansion slots than ATX
    d.  ATX motherboards do not support discrete GPUs

    The correct answer is: Mini-ATX is smaller in size and offers fewer expansion slots than ATX

90. Which motherboard design style is most widely implemented?
    a.  Baby ATX
    b.  AT
    c.  NLX
    d.  ATX

    The correct answer is: ATX

91. Which motherboard form factor places expansion slots on a special riser card and is used in low-profile PCs?
    a.  AT
    b.  ATX
    c.  NLX
    d.  Baby AT

    The correct answer is: NLX

92. Which of the following are considered integrated I/O ports?
    a.  Serial port
    b.  All of these options are correct
    c.  USB port
    d.  Ethernet port.

    The correct answer is: All of these options are correct.

93. Which of the following is not considered a system component that can be found inside the computer?
    a.  RAM
    b.  PCIe graphics adapter
    c.  CPU
    d.  Motherboard

    The correct answer is: PCIe graphics adapter.

94. Conversation of binary number 00011110 to decimal number is
    a.  39
    b.  339
    c.  139
    d.  30

    The correct answer is: 30

95. Which of the following is used to store documents and programs for repeated use? Information can be added and deleted as well.
    a.  Hard drive
    b.  ROM
    c.  RAM
    d.  Internal cache memory

    The correct answer is: Hard drive

96. Which of the following loses its contents when you shut down the computer?
    a.  USB flash drive

b. Hard disk drive

c. Random access memory (RAM)

d. read-only memory (ROM).

The correct answer is: Random access memory (RAM)

97. Which of the following memory types has the smallest form factors

a. DIMM

b. RIMM

c. SIMM

d. MicroDIMM

The correct answer is: MicroDIMM

98. Conversion of a hexadecimal number 4B to binary number is

a. 110011

b. 01001011

c. 1101101

d. 111010

The correct answer is: 01001011

99. Accelerated Graphics Port (AGP) slots are known mostly for video card and are usually in which of the color?

a. Black

b. Brown

c. White

d. Red

The correct answer is: Brown

100. An application or program runs in

a. Secondary Memory

b. RAM

c. Hard Disk

d. ROM

The correct answer is: RAM

101. CD-ROM stands for

a. Computer Read Only Memory

b. Compressed Disk Read Only Memory

c. Compact Disk Read Only Memory

d. Compact Data Read Only Memory

The correct answer is: Compact Disk Read Only Memory

102. Conversion of a hexadecimal number 4F to binary number is

a. 1001101

b. 110111

c. 1001110

d. 01001111

The correct answer is: 01001111

103. Conversion of decimal number 99 to its binary number equivalent is

a. 00111101

b. 11001110

c. 00011111

d. 01100011

The correct answer is: 01100011

104.    Conversion of decimal number 71 to its binary number equivalent is

a. 11111111
b. 00000001
c. 01000111
d. 10101010

The correct answer is: 01000111

105.    On an Intel based motherboard, which chipset enables the CPU to interact with RAM?

a. Super I/O
b. Southbridge
c. Northbridge
d. Memorybridge

The correct answer is: Northbridge

106.    If you are unable to display a given resolution on a monitor, which of the following might explain why?

a. You are using CRT with a single fixed resolution
b. The video display unit does not have enough memory installed
c. The graphics adapter does not have enough memory installed
d. You have the refresh rate set too high

The correct answer is: The graphics adapter does not have enough memory installed

107.    Which component is responsible for processing and rendering graphics on a computer?

a. A barcode reader
b. Graphics Processing Unit (GPU)
c. A MIDI device
d. A TV tuner card

The correct answer is: Graphics Processing Unit (GPU)

108.    When replacing a power supply, which of the following trends to vary among power supplies and must be chosen properly to support all connected devices?

a. Resistance
b. Voltage
c. Amperage
d. Wattage

The correct answer is: Wattage

109.    Which computer components contain all the circuits necessary for other components or devices to communicate with one another?

a. Motherboard
b. Hard drive
c. Adapter card
d. Expansion Slot

The correct answer is: Motherboard

110.    We can connect Mouse by using _____

a. Parallel Port
b. IEEE1394
c. RJ45

d. PS/2 and USB

The correct answer is: PS/2 and USB

111. Which device in a bubble-jet printer contains the printhead?

a. daisy wheel

b. Toner cartridge

c. Ink cartridge

d. paper tray

The correct answer is: Ink cartridge

112. Which one of the following is not a function of firewall?

a. Packet filtering

b. Block traffic to specific address

c. Coding and decoding the message

d. Isolate one network to others

The correct answer is: Coding and decoding the message

113. Barcode readers can use _____ to scan one-or two-dimensional barcodes.

a. LCD or CRT

b. LED or Laser

c. Mouse or Keyboard

d. OMR or Scanner

The correct answer is: LED or Laser

114. Daisy wheel and Dot Matrix are two types of _____

a. Impact Printers

b. Plotters

c. Jet Printers

d. Laser Printers

The correct answer is: Impact Printers

115. Motherboard form factor where the expansion slots are placed sideways on a special riser card to use the reduced vertical space optimally.

a. MicroATX

b. NLX

c. BLX

d. ATX

The correct answer is: NLX

116. HDMI stands for

a. High Definition Movie Interconnection

b. High Definition Multimedia Interface

c. High Degree Multimedia Interface

d. High Definition Musical Interface

The correct answer is: High Definition Multimedia Interface

117. LANs connect computers and peripheral devices

Select one:

a. True

b. False

The correct answer is: True

118. A computer case is also known as a computer chassis.

Select one:

a. True

b. False

The correct answer is: True.

119. A CPU consists of the Control Unit and the Arithmetic and Logic Unit (ALU).

Select one:

a. True

b. False

The correct answer is: True.

120. ROM (Read-Only Memory) provides permanent data storage

Select one:

a. True

b. False

The correct answer is: True.

121. Computer case minimizes electrical interference to other electronic devices in the area

Select one:

a. True

b. False

The correct answer is: True.

122. HDDs produce more noise than SSDs because they contain moving mechanical parts

Select one:

a. True

b. False

The correct answer is: True.

123. HDDs are more durable than SSDs

Select one:

a. True

b. False

The correct answer is: False

124. SSDs are generally more expensive than HDDs

Select one:

a. True

b. False

The correct answer is:True.

125. A power supply unit converts DC(Direct Current) power to AC(Alternate Current)

Select one:

a. True

b. False

The correct answer is: False

126. RAM is considered non-volatile memory

Select one:

a. True

b. False

The correct answer is: False

127. ROM allows data to be written faster than other types of memory

Select one:

a. True

b. False

The correct answer is: False

128.    The main components of a Hard Disk Drive (HDD) are made primarily of metal.

Select one:

a. True

b. False

The correct answer is: True.

129.    Most computer power supplies have output capacities ranging from 300 watts to 1000 watts.

Select one:

a. True

b. False

The correct answer is: True

130.    The Operating System (OS) serves as the interface between the user and the computer hardware.

Select one:

a. True

b. False

The correct answer is: True.

131.    In the main motherboard power (ATX) the on-off power controls circuit boards is built outside the motherboard _____.

Select one:

a. True

b. False

The correct answer is: False

132.    Which of the following is **not** a commonly used computer operating system?

Select one:

a. Windows

b. macOS

c. Linux

d. BIOS

The correct answer is: BIOS

133.    ROM has temporary storage

Select one:

a. True

b. False

The correct answer is: False

134.    ROM used for startup process of computer_____.

Select one:

a. True

b. False.

The correct answer is True

135.    One of the key functions of an Operating System is to manage the booting process

Select one:

a. True

b. False.

The correct answer is: True

136. Which of the following best describes encryption?

Select one:

a. The process of converting data into a readable format

b. The process of converting readable data into a coded form to protect it.

c. A method used to delete unwanted data

d. The act of backing up user files

The correct answer is: The process of converting readable data into a coded form to protect it.

137. Which key is commonly pressed during system startup to access the BIOS/UEFI setup utility?

a. Del or F2

b. F5

c. Esc

d. Ctrl + Alt + Delete

The correct answer is: Del or F2

138. OS has a lot of functions, example: Memory Management

Select one:

a. True

b. False

The correct answer is: True

139. DIMM modules are primarily used in desktop computers, while laptops use SO-DIMM modules

Select one:

a. True

b. False

The correct answer is: True

140. Computer security encompasses multiple branches, including Information Security and Network Security.

Select one:

a. True

b. False

The correct answer is: True

141. Which of the following statements about thermal printers is true?

a. They use ink cartridges to print on plain paper.

b. They use heat to produce images on specially coated paper.

c. They are slower than dot matrix printers.

d. They use toner to create images.

The correct answer is: They use heat to produce images on specially coated paper.

142. What is the primary purpose of a router in a network?

a. To route data packets between different networks

b. To connect devices using MAC addresses

c. To extend wireless signal coverage

d. To provide power to network devices

The correct answer is: To route data packets between different networks

143. The goal of computer security is to maximize computer freezing and crashes.

Select one:

a. True

b. False

The correct answer is: False

144. HDD is heavier than SSD _____.

Select one:

a. True

b. False

The correct answer is: True

145. Implementing computer security measures helps in safeguarding and efficiently managing critical information.

Select one:

a. True

b. False

The correct answer is: True

146. What is the first step when troubleshooting a hardware problem?

Select one:

a. Replace the hardware immediately

b. Restart the computer

c. Identify and define the problem

d. Format the hard drive

The correct answer is: Identify and define the problem

147. Cryptographic algorithms are used to encode a message from its unencrypted or clear-text state into an encrypted message

Select one:

a. True

b. False

The correct answer is: True

148. Continuous system reboots are often caused by faulty drivers or incorrect system configurations.

Select one:

a. True

b. False

The correct answer is: True

149. When a computer frequently crashes or displays a Blue Screen of Death (BSOD), which component should be checked first for potential failure?

a. Hard disk

b. RAM

c. Graphics card

d. Power supply

The correct answer is: RAM

150. What is the primary function of a firewall?

a. To improve system performance

b. To detect and remove viruses automatically

c. To monitor and control incoming and outgoing network traffic for security

d. To convert analog signals to digital

The correct answer is: To monitor and control incoming and outgoing network traffic for security

151. What is a common symptom of a failing hard disk?
   a. Continuous beeping sound
   b. Distorted display on the monitor
   c. Clicking or grinding noise
   d. The computer runs faster than usual

   The correct answer is: Clicking or grinding noise

152. What does BIOS stand for?
   a. Basic Input/Output System
   b. Binary Integrated Operating System
   c. Basic Integrated Output Structure
   d. Binary Input Operating System

Correct Answer: Basic Input/Output System

153. Which peripheral device is used to convert physical documents into digital form?
   a. Monitor
   b. Scanner
   c. Keyboard
   d. Printer

Correct Answer: Scanner

154. What type of bus architecture is commonly used for expansion cards?
   a. PCIe
   b. USB
   c. SATA
   d. HDMI

   Correct Answer: PCIe

155. What is the primary function of a UPS?
   a. Increase processing speed
   b. Provide backup power
   c. Enhance network security
   d. Optimize graphics performance

   Correct Answer: Provide backup power

156. What component is primarily responsible for storing the BIOS settings?
   a. CMOS
   b. Hard Drive
   c. RAM
   d. Power Supply

   Correct Answer: CMOS

157. Which type of CPU allows simultaneous execution of multiple instructions?
   a. Single-core
   b. Multi-core
   c. Static CPU

d. Dual-core

   Correct Answer: Multicore

158.   What type of cache is closed to the CPU core?

   a. L1 Cache
   b. L2 Cache
   c. L3 Cache
   d. Virtual Cache

   Correct Answer: L1 Cache

159.   What is the purpose of a CPU socket?

   a. Connect peripherals
   b. Attach the CPU to the motherboard
   c. Store power supply settings
   d. Cool the CPU

   Correct Answer: Attach the CPU to the motherboard

160.   Hyper-threading is a technology used to:

   a. Increase clock speed
   b. Enable multiple threads per core
   c. Reduce power consumption
   d. Enhance GPU performance

   Correct answer: Enable multiple threads per core

161.   What cooling method uses liquid to dissipate heat?

   a. Passive Cooling
   b. Liquid Cooling
   c. Thermal Paste
   d. Heat Sink

   Correct Answer: Liquid Cooling

162.   What unit measures CPU clock speed?

   a. Hertz (Hz)
   b. Watts (W)
   c. Bytes (B)
   d. Ohms

   Correct Answer: Hertz (Hz)

163.   What is the hexadecimal representation of the decimal number 255?

   a. FF
   b. AF
   c. 00
   d. 11

   Correct Answer: FF

164.   Which memory type is non-volatile?

   a. RAM
   b. ROM
   c. Cache
   d. DDR

   Correct Answer: ROM

165. What does RAID stand for?
    a. Redundant Array of Independent Disks
    b. Random Access Interface Data
    c. Rapid Access Information Drive
    d. Reliable Array of Integrated Disks
    Correct Answer: Redundant Array of Independent Disks

166. Which of the following statements correctly compares a laptop component to its desktop counterpart?
    a. Laptop processors typically consume more power and generate more heat than desktop processors.
    b. Laptop RAM modules are usually smaller in size and known as SO-DIMM, while desktops use DIMM modules.
    c. Laptop hard drives are larger in physical size than desktop hard drives.
    d. Laptop motherboards can easily be replaced with any standard desktop motherboard
    Correct Answer: Laptop RAM modules are usually smaller in size and known as SO-DIMM, while desktops use DIMM modules

167. What is the first process in the boot sequence?
    a. Loading the operating system
    b. POST (Power-On Self-Test)
    c. Initializing drivers
    d. Displaying the login screen
    Correct Answer: POST (Power-On Self-Test)

168. What type of removable storage is commonly used in smartphones?
    a. USB drive
    b. SD Card
    c. External HDD
    d. Floppy Disk
    Correct Answer: SD Card

169. Which file system is used by Windows?
    a. NTFS
    b. EXT4
    c. FAT32
    d. HFS+
    Correct Answer: NTFS

170. What is the main purpose of a backup system?
    a. To enhance overall computer performance
    b. To protect important data against loss or corruption
    c. To increase total storage capacity
    d. To speed up data transfer between devices
    Correct Answer: To protect important data against loss or corruption

171. Which software helps to detect and remove malware?
    a. Firewall
    b. Antivirus
    c. Operating System

d. BIOS

Correct Answer: Antivirus

172.　A firewall primarily works by:

a. Encrypting all data

b. Blocking unauthorized access

c. Increasing CPU performance

d. Managing power supply

Correct Answer: Blocking unauthorized access

173.　Which process improves system performance by storing frequently used data?

a. Caching

b. Booting

c. Formatting

d. Partitioning

Correct Answer: Caching

174.　What type of authentication uses fingerprints?

a. Password

b. Biometric

c. Encryption

d. Token-based

Correct answer: Biometric

175.　Which is a secure way to manage user access?

a. Using shared passwords

b. Authentication

c. Disabling firewalls

d. Granting admin rights to all users

Correct Answer: Authentication

176.　What type of printer uses toner to produce images?

a. Inkjet

b. Dot Matrix

c. Laser

d. Thermal

Correct answer: Laser

177.　What component supplies power to all parts of the computer?

a. Motherboard

b. CPU

c. Power Supply Unit

d. BIOS

Answer: Power Supply Unit

178.　What is the primary function of a CPU?

a. Data Storage

b. Processing instructions

c. Display output

d. Connecting devices

Answer: Processing Instructions

179.     What does L2 Cache do?
   a. Stores long-term data
   b. Temporarily stores frequently accessed data
   c. Manages power supply settings
   d. Controls input devices
   Answer: Temporarily stores frequently accessed data

180.     What CPU socket type is used for AMD processors?
   a. PGA
   b. LGA
   c. ZIF
   d. BGA
   Answer PGA

181.     Which RAID level provides redundancy by storing identical copies of data on two drives?
   a. RAID 0
   b. RAID 1
   c. RAID 5
   d. RAID 10
   Answer RAID 1

182.     Which storage device uses magnetic disks to store data?
   a. SSD
   b. HDD
   c. Optical Drive
   d. Flash Drive
   Answer: HDD

183.     Which backup media is commonly used for long-term archival storage?
   a. USB Drives
   b. Cloud Storage
   c. Magnetic Tape
   d. SD Card
   Answer: Magnetic Tape

184.     Which process loads the operating system into memory during startup?
   a. POST
   b. Booting
   c. Formatting
   d. Initialising
   Answer: Booting

185.     Which device translates physical movements into cursor movement?
   a. Keyboard
   b. Mouse
   c. Touchscreen
   d. Scanner
   Answer: Mouse

186.     What is the most commonly used interface for connecting external drives?
   a. HDMI

b. USB

c. Ethernet

d. VGA

Answer: USB

187. What device acts as an intermediary between a computer and a network?

a. Central Processing Unit

b. Network Interface Card

c. PSU

d. Random Access Memory

Answer: Network Interface Card

188. Which technology is used to protect data on storage devices?

a. RAID

b. Cache

c. Formatting

d. De-fragmentation

Answer: RAID

189. What is decryption?

a. Converting coded data back into its original readable form

b. Locking files to prevent access

c. Storing data on external drives

d. Formatting encrypted files

Answer: Converting coded data back into its original readable form

190. What is the primary function of the motherboard?

a. Power supply to the CPU

b. Storage for data

c. Connecting all computer components

d. Displaying video output

Answer: Connecting all computer components

191. Which component stores the settings for the date, time, and hardware configuration?

a. BIOS

b. CMOS

c. RAM

d. HDD

Answer: CMOS

192. What does PCIe stand for?

a. Peripheral Component Interchange Express

b. Peripheral Component Interconnect Express

c. Parallel Component Interchange Express

d. Primary Component Interconnect Express

Answer: Peripheral Component Interconnect Express

193. Which bus architecture is specifically used for graphics cards?

a. PCI

b. AGP

c. USB

d. ISA

Answer: AGP

194.    What is the primary purpose of the address bus?

a. Specify the memory location for data transfer

b. Transfer data between peripherals

c. Control hardware devices

d. Store data temporarily

Answer: Specify the memory location for data transfer

195.    Which bus is responsible for communication between the CPU and external devices?

a. Data Bus

b. Address Bus

c. Control Bus

d. I/O Bus

Answer: I/O Bus

196.    Which of the following is an open-source operating system?

a. Windows

b. Linux

c. macOS

d. Solaris

Answer: Linux

197.    Which of the following is a form of malware designed to replicate itself?

a. Trojan Horse

b. Worm

c. Ransomware

d. Rootkit

Answer: Worm

198.    What does encryption do to data?

a. Deletes it permanently

b. Converts it into a secure, unreadable format

c. Compresses it to save space

d. Sends it directly to the cloud

Answer: Converts it into a secure, unreadable format

199.    Which component is considered the brain of the computer?

a. Motherboard

b. CPU

c. RAM

d. Hard Drive

Answer: CPU

200.    _____ biometrics identify individuals based on unique physical traits such as fingerprints, iris patterns, or facial features, while _____ biometrics rely on behavioral traits like voice, typing rhythm, or signature.

a. Physiological, Behavioral

b. Behavioral, Physiological

c. Digital, Analog

d. Static, Dynamic

   Answer: Physiological, Behavioral