* **Question 1**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | Which of the following is true about AC electricity? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | b.  it travels from a hot line and returns on a neutral line | | Answers: | a.  in the U.S. it oscillates at 120 Hz | |  | b.  it travels from a hot line and returns on a neutral line | |  | c.  it always takes the path of highest resistance | |  | d.  the hot line is always grounded | |  |  |  |

* **Question 2**

10 out of 10 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | CAS \_\_\_\_\_\_\_\_\_\_\_\_\_ measures memory access timing. |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | Latency | | Correct Answer: |  |  |  |  |  | | --- | --- | --- | | **Evaluation Method** | **Correct Answer** | **Case Sensitivity** | | *Exact Match* | latency |  |  |  | | --- | |  | |  |  |  |

* **Question 3**

10 out of 10 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ causes the CPU to run faster than normal and can cause the CPU to overheat. |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | overclocking | | Correct Answer: |  |  |  |  |  | | --- | --- | --- | | **Evaluation Method** | **Correct Answer** | **Case Sensitivity** | | *Exact Match* | Overclocking |  |  |  | | --- | |  | |  |  |  |

* **Question 4**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | When installing a processor, you must line up the red circle on the processor with the right-angle mark on the motherboard. |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | False | | Answers: | True | |  | False | |  |  |  |

* **Question 5**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | Today’s DIMMs use a 64-bit data path. |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | True | | Answers: | True | |  | False | |  |  |  |

* **Question 6**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | Which of the following is a requirement for supporting the Aero user interface? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | a.  DirectX 9 or higher | | Answers: | a.  DirectX 9 or higher | |  | b.  an HDMI video port | |  | c.  Windows XP with SP3 | |  | d.  at least 128 KB video memory | |  |  |  |

* **Question 7**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | To move a hard drive to another computer for the purposes of accessing the data, you always need to first physically install it in a drive bay. |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | False | | Answers: | True | |  | False | |  |  |  |

* **Question 8**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | What is a result of two objects with dissimilar electrical charges touching? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | c.  ESD | | Answers: | a.  CRT | |  | b.  LCD | |  | c.  ESD | |  | d.  EMI | |  |  |  |

* **Question 9**

14 out of 14 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | What should you do before disconnecting the wires leading from the front of the computer case to the motherboard if you don’t have the motherboard manual handy? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | be very careful to diagram how the wires connect because they're never labeled well on a motherboard. Make a careful diagram and then disconnect the wires. | | Correct Answer: | Be very careful to diagram how these wires connect because they are never labeled well on a motherboard. | |  |  |  |

* **Question 10**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | Which interface is not typically used for an internal tape drive? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | a.  FireWire | | Answers: | a.  FireWire | |  | b.  PATA | |  | c.  SATA | |  | d.  SCSI | |  |  |  |

* **Question 11**

14 out of 14 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | What are three tips you should keep in mind before beginning work inside a computer case? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | - make notes as you work  - remove loose jewelry  - Stay organized by keeping small parts in one place, keep screws and spacers orderly (cup or tray)  - Do not stack boards on top of each other  - don't touch board chips, cards or drives.  - hold expansion cards by edges  - don't touch microchips w/ magnetized screwdriver  - never touch inside of a turned on computer  - never remove cover and touch inside of a monitor or power supply  - watch for sharp edges  - have instructor check work before powering | | Correct Answer: | Make notes as you work so that you can backtrack later if necessary.  Remove loose jewelry that might get caught in cables and components as you work. To stay organized and not lose small parts, keep screws and spacers orderly and in one place, such as a cup or tray. Don’t stack boards on top of each other. When handling motherboards, cards, or drives, don’t touch the chips on the device. Hold expansion cards by the edges.  To protect a microchip, don’t touch it with a magnetized screwdriver. Never ever touch the inside of a computer that is turned on.  Never remove the cover or put your hands inside a monitor or power supply.  As you work, remember to watch out for sharp edges on computer cases that can cut you. In a classroom environment, after you have reassembled everything, have your instructor check your work before you put the cover back on and power up. | |  |  |  |

* **Question 12**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | Which of the following is NOT true about hard disk drives? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | d.  sold state drives are less expensive than magnetic hard drives | | Answers: | a.  tracks on a hard drive are divided into sectors | |  | b.  the 3.5” size is typically used in desktops | |  | c.  a solid state drive has no moving parts | |  | d.  sold state drives are less expensive than magnetic hard drives | |  |  |  |

* **Question 13**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | Which general-purpose tool can measure characteristics of electricity in a variety of devices? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | c.  multimeter | | Answers: | a.  loopback plug | |  | b.  POST card | |  | c.  multimeter | |  | d.  cable tester | |  |  |  |

* **Question 14**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | What tool can help discover and report computer errors and conflicts that occur when you first turn on a computer and before the operating system is launched? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | d.  POST card | | Answers: | a.  CMOS firmware | |  | b.  BIOS memory | |  | c.  ROM module | |  | d.  POST card | |  |  |  |

* **Question 15**

14 out of 14 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | What are some of the possible causes of intermittent device failures? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | –PC appears to be “dead”  –PC sometimes locks up during booting  –Error codes or beeps occur during booting  –Smell burnt parts or odors  –PC powers down at unexpected times  –PC appears dead except you hear a whine coming from the power supply | | Correct Answer: | Failures that come and go might be caused by overheating or failing RAM, the motherboard, processor, or hard drive. Begin by checking the processor temperature for overheating. Then check RAM for errors and run diagnostics on the hard drive. | |  |  |  |

* **Question 16**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | What do you call a connector on a motherboard that consists of pins that stick up from the board? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | c.  header | | Answers: | a.  socket | |  | b.  pin array | |  | c.  header | |  | d.  jumper | |  |  |  |

* **Question 17**

10 out of 10 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | After you unplug the computer, you should press the \_\_\_\_\_\_\_\_\_\_\_ button for about three seconds. |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | power | | Correct Answer: |  |  |  |  |  | | --- | --- | --- | | **Evaluation Method** | **Correct Answer** | **Case Sensitivity** | | *Exact Match* | power |  | | *Exact Match* | on/off |  |  |  | | --- | |  | |  |  |  |

* **Question 18**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | Which hard drive technology is used to predict when a drive is likely to fail? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | a.  S.M.A.R.T. | | Answers: | a.  S.M.A.R.T. | |  | b.  S.S.D. | |  | c.  E.E.P.R.O.M. | |  | d.  N.A.N.D. | |  |  |  |

* **Question 19**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | Which of the following represents the correct order in which you should install components into the case after disassembling a computer? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | b.  power supply, drives, motherboard, cards | | Answers: | a.  motherboard, drives, cards, power supply | |  | b.  power supply, drives, motherboard, cards | |  | c.  cards, motherboard, power supply, drives | |  | d.  drives, motherboard, cards, power supply | |  |  |  |

* **Question 20**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | Which of the following is the smallest motherboard form factor? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | b.  FlexATX | | Answers: | a.  MicroATX | |  | b.  FlexATX | |  | c.  NLX | |  | d.  MicroBTX | |  |  |  |

* **Question 21**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | A tower case conserves space since it can double as a monitor stand. |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | False | | Answers: | True | |  | False | |  |  |  |

* **Question 22**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | A poor looking video display might be caused by inadequate video RAM. |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | True | | Answers: | True | |  | False | |  |  |  |

* **Question 23**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | Under what circumstance is a liquid cooling system most likely used? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | c.  overclocking | | Answers: | a.  onboard graphics controller | |  | b.  dual-core processing | |  | c.  overclocking | |  | d.  multiple hard disks installed | |  |  |  |

* **Question 24**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | Which of the following is the Intel maximum degree limit for processors? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | b.  185 F | | Answers: | a.  90 F | |  | b.  185 F | |  | c.  155 C | |  | d.  32 C | |  |  |  |

* **Question 25**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | An Ethernet port has a connector called an RJ-45 to connect to a network cable. |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | True | | Answers: | True | |  | False | |  |  |  |

* **Question 26**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | Which of the following is true about the USB standard and devices? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | a.  a USB cable has four wires, two for power and two for communication | | Answers: | a.  a USB cable has four wires, two for power and two for communication | |  | b.  USB uses parallel data transmissions | |  | c.  up to 64 USB devices can be daisy chained together | |  | d.  USB devices must supply their own power | |  |  |  |

* **Question 27**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | A 32-bit driver can be used in a 64-bit operating system. |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | False | | Answers: | True | |  | False | |  |  |  |

* **Question 28**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | Which type of memory is the main memory installed as DIMMs on a motherboard? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | b.  DRAM | | Answers: | a.  Flash RAM | |  | b.  DRAM | |  | c.  SRAM | |  | d.  CMOS RAM | |  |  |  |

* **Question 29**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | Which component probably has a dual-voltage selector switch, and has cables that connect to the motherboard and drives? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | d.  PSU | | Answers: | a.  DIMM | |  | b.  PCIe | |  | c.  HDD | |  | d.  PSU | |  |  |  |

* **Question 30**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | When you build a computer from parts, you usually start by deciding on which processor and motherboard you will use. |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | True | | Answers: | True | |  | False | |  |  |  |

* **Question 31**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | DDR memory is faster than GDDR memory since it is used by the CPU. |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | False | | Answers: | True | |  | False | |  |  |  |

* **Question 32**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | A DVI port transmits a video signal and is also called a DB-15 port. |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | False | | Answers: | True | |  | False | |  |  |  |

* **Question 33**

10 out of 10 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | When the \_\_\_\_\_\_\_\_\_\_\_\_\_ battery fails, the BIOS loses its time and date settings. |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | CMOS | | Correct Answer: |  |  |  |  |  | | --- | --- | --- | | **Evaluation Method** | **Correct Answer** | **Case Sensitivity** | | *Exact Match* | CMOS |  |  |  | | --- | |  | |  |  |  |

* **Question 34**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | A DIMM that holds data and amplifies a signal before the data is written to the module uses which technology? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | a.  registers | | Answers: | a.  registers | |  | b.  parity | |  | c.  CAS | |  | d.  EDO | |  |  |  |

* **Question 35**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | If you see smoke or smell burning, you should immediately open the case to try to identify the component that is causing it. |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | False | | Answers: | True | |  | False | |  |  |  |

* **Question 36**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | How is data stored on magnetic tape? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | d.  sequentially | | Answers: | a.  in parallel | |  | b.  in random access form | |  | c.  as optical bits | |  | d.  sequentially | |  |  |  |

* **Question 37**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | What is the purpose of the LightScribe technology? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | b.  labels can be burned on the top of a disc | | Answers: | a.  it allows the use of LEDs instead of lasers in the CD/DVD drive | |  | b.  labels can be burned on the top of a disc | |  | c.  it increases read performance by four times | |  | d.  reliability of CD-R is substantially increased | |  |  |  |

* **Question 38**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | Sandy Bridge processors house the memory controller and graphics controller. |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | True | | Answers: | True | |  | False | |  |  |  |

* **Question 39**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | Which Intel CPU socket is discontinued? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | c.  Socket 478 | | Answers: | a.  Socket H | |  | b.  LGA1155 | |  | c.  Socket 478 | |  | d.  LGA2011 | |  |  |  |

* **Question 40**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | Which of the following might be the cause of a black screen right after you install a new video card? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | d.  the onboard video is not disabled in BIOS | | Answers: | a.  the video card has insufficient RAM | |  | b.  no video card is detected | |  | c.  you installed the video card in the wrong slot | |  | d.  the onboard video is not disabled in BIOS | |  |  |  |

* **Question 41**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | The official standard for USB interfaces is called IEEE 1394. |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | False | | Answers: | True | |  | False | |  |  |  |

* **Question 42**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | Which of the following is NOT a necessary precaution when installing memory modules? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | d.  test the motherboard for residual electrical charges | | Answers: | a.  unplug the computer | |  | b.  don’t stack modules on top of each other | |  | c.  use a ground bracelet | |  | d.  test the motherboard for residual electrical charges | |  |  |  |

* **Question 43**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | At what point during the motherboard installation should you install the motherboard drivers? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | c.  after Windows successfully boots | | Answers: | a.  before applying power for the first time | |  | b.  after the POST successfully completes | |  | c.  after Windows successfully boots | |  | d.  only if you get a blue screen of death when Windows boots | |  |  |  |

* **Question 44**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | If you need to recover data off a system that won’t boot, install the drive in a working system. |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | True | | Answers: | True | |  | False | |  |  |  |

* **Question 45**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | Which of the following is true about DIMM technologies? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | c.  SDRAM runs synchronized with the system clock | | Answers: | a.  DDR2 uses 184 pins | |  | b.  the S in SDRAM stands for static | |  | c.  SDRAM runs synchronized with the system clock | |  | d.  DDR3 is backward compatible with DDR2 | |  |  |  |

* **Question 46**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | When disassembling a computer, it’s okay to stack circuit boards on top of each other as long as you follow ESD protection rules. |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | False | | Answers: | True | |  | False | |  |  |  |

* **Question 47**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | Which of the following is true about selecting a hard drive? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | a.  magnetic drives have larger capacity for the money than solid state drives | | Answers: | a.  magnetic drives have larger capacity for the money than solid state drives | |  | b.  PATA drives are backward compatible with SATA drives | |  | c.  FireWire 800 drives are a good choice for fast internal drives | |  | d.  a faster spindle speed keeps the drive cooler but doesn’t improve performance | |  |  |  |

* **Question 48**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | Which of the following is NOT an FRU on a motherboard? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | c.  chipset | | Answers: | a.  CMOS battery | |  | b.  processor | |  | c.  chipset | |  | d.  RAM | |  |  |  |

* **Question 49**

10 out of 10 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | NVIDIA’s method of connecting multiple video cards in the same system is called \_\_\_\_\_\_\_\_\_\_. |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | SLI | | Correct Answer: |  |  |  |  |  | | --- | --- | --- | | **Evaluation Method** | **Correct Answer** | **Case Sensitivity** | | *Exact Match* | SLI |  |  |  | | --- | |  | |  |  |  |

* **Question 50**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | Which of the following is a basic principle that applies to both internal and external devices? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | d.  for most installations, install the device first, then the device driver | | Answers: | a.  when connecting a faster device to a slower port, the port adapts to the speed of the device | |  | b.  some devices don’t require a software component for them to work properly | |  | c.  if you have multiple devices to install, it’s best to install them at the same time | |  | d.  for most installations, install the device first, then the device driver | |  |  |  |

* **Question 51**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | What technology in a DIMM informs the BIOS of the module’s size, speed, voltage, and data path width? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | d.  SPD | | Answers: | a.  Buffers | |  | b.  DDR | |  | c.  ECC | |  | d.  SPD | |  |  |  |

* **Question 52**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | The two major manufacturers of processors are Intel and NVIDIA. |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | False | | Answers: | True | |  | False | |  |  |  |

* **Question 53**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | Which of the following is true about DIMM slots? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | d.  color coding is used to identify the channel | | Answers: | a.  DDR2 and DDR3 support triple channels | |  | b.  a DDR3 DIMM allows access to four memory chips simultaneously on each DIMM | |  | c.  DDR only supports a single channel | |  | d.  color coding is used to identify the channel | |  |  |  |

* **Question 54**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | Which of the following is an audio port that connects to an external home theater audio system, providing digital audio output? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | b.  S/PDIF | | Answers: | a.  FireWire | |  | b.  S/PDIF | |  | c.  eSATA | |  | d.  Thunderbolt | |  |  |  |

* **Question 55**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | What does a small triangle embedded on a connector signify? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | a.  the wire nearest the triangle is pin 1 | | Answers: | a.  the wire nearest the triangle is pin 1 | |  | b.  the pin near the triangle should be matched with a circular pin | |  | c.  the connector is optional and need not be attached | |  | d.  use caution when using the connector | |  |  |  |

* **Question 56**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | A FlexATX motherboard is larger than an ATX motherboard. |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | False | | Answers: | True | |  | False | |  |  |  |

* **Question 57**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | What has occurred if you see the message “Chassis Intruded! System has halted.” the next time you start your computer? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | d.  the case has been opened | | Answers: | a.  the keyboard has been unplugged | |  | b.  Windows has not been activated | |  | c.  the disk has failed | |  | d.  the case has been opened | |  |  |  |

* **Question 58**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | The motherboard sits on elevated screw holes or spacers to keep it from touching the case. |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | True | | Answers: | True | |  | False | |  |  |  |

* **Question 59**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | Which of the following is NOT true about Ivy Bridge chipsets compared to earlier products? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | b.  use more power | | Answers: | a.  higher density transistors | |  | b.  use more power | |  | c.  released in 2012 | |  | d.  better performance | |  |  |  |

* **Question 60**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | Which unit of electricity measures electrical force and 115 is a common value? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | a.  Volt | | Answers: | a.  Volt | |  | b.  Watt | |  | c.  Amp | |  | d.  Ohm | |  |  |  |

* **Question 61**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | Which of the following is a setting you can configure from the BIOS setup program? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | d.  change the boot sequence | | Answers: | a.  set the desktop background | |  | b.  configure the screen saver timeout | |  | c.  disable a Windows driver | |  | d.  change the boot sequence | |  |  |  |

* **Question 62**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | What can you conclude if you heard one short beep during system boot? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | a.  all POST tests passed | | Answers: | a.  all POST tests passed | |  | b.  a keyboard controller problem | |  | c.  a video problem | |  | d.  a memory error | |  |  |  |

* **Question 63**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | Hard drives have three connections for cables: one for reading data, one for writing data, and one for power. |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | False | | Answers: | True | |  | False | |  |  |  |

* **Question 64**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | What is placed between the bottom of the cooler heat sink and the top of the processor that makes an airtight connection between the fan and processor? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | c.  thermal compound | | Answers: | a.  high-density oil | |  | b.  fan shield | |  | c.  thermal compound | |  | d.  metal fins | |  |  |  |

* **Question 65**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | What should you do if you want to be able locate your laptop in the event of loss or theft and give it a command through the Internet to lock it or delete data? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | d.  subscribe to LoJack for Laptops | | Answers: | a.  set a BIOS No Access password | |  | b.  install a high-power WiFi card | |  | c.  enable the GPS module in the BIOS | |  | d.  subscribe to LoJack for Laptops | |  |  |  |

* **Question 66**

14 out of 14 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | What are POST code beeps and how should you respond to them? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | One short beep or no beep, indicates all is well and the computer passed all POST tests.  1 long and 2 short beeps, indicates to a video problem, no video card, bad video memory.  if hearing more than one beep, you should look up the beep code in the motherboard or BIOS documentation to check the problems. for examlple,  continuous short beeps, indicates a memory error or a loose card/ short.  1 long and 1 short beeps, indicates motherboard problem.  1 long and 3 short beeps, indicates a video problem.  3 long beeps, indicates a keyboard controller problem.  continuous 2 short beeps and then a pause, indicates a video problem.  continuous  3 short beeps and then a pause, indicates a memory error.  8 beeps followed by a system shutdown, indicates the system has overheated.  continuous high and low beeps, indicates CPU problem. | | Correct Answer: | Startup BIOS communicates POST errors as a series of beeps before it tests video. Search the web site of the motherboard or BIOS manufacturer to know how to interpret a series of beep codes. | |  |  |  |

* **Question 67**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | If you connect the floppy cable in the wrong direction, the floppy drive light stays on continuously. |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | True | | Answers: | True | |  | False | |  |  |  |

* **Question 68**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | What unit of measurement is used for DIMM read and write times? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | c.  nanoseconds | | Answers: | a.  milliseconds | |  | b.  microseconds | |  | c.  nanoseconds | |  | d.  picoseconds | |  |  |  |

* **Question 69**

14 out of 14 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | List two symptoms of a system that might be overheating. |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | 1. System hangs or freezes at odd times or after the boot starts  2. Windows BSOD (blue screen of death) error occurs during the boot  3. Cannot hear a fan running or the fan makes a whining sound  4. Cannot feel air being pulled into or out of the case | | Correct Answer: | The system hangs or freezes at odd times or freezes just a few moments after the boot starts. A Windows BSOD error occurs during the boot. You cannot hear a fan running or the fan makes a whining sound. You cannot feel air being pulled into or out of the case. | |  |  |  |

* **Question 70**

3 out of 3 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | What was the 64-bit Front Side Bus replaced with in the X58 (Nehalem) chipset? |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | d.  QPI | | Answers: | a.  PCIe | |  | b.  ICH | |  | c.  FSB | |  | d.  QPI | |  |  |  |