## Test Bank for A+ Guide to Managing and Maintaining Your PC 8th Edition by Jean Andrews

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# **Chapter 2—Working Inside a Computer**

TR	TT	$\mathbf{F}/$	$\mathbf{F}A$	T	SF
		- '. <i>.</i>	1 P		/ TIL

1.	When disassembling a computer, it's okay to stack circuit boards on top of each other as long as you follow ESD protection rules.						
	ANS: F	PTS: 1	REF:	46			
2.	Immediately after the case.	r you unplug the co	omputer from the	ne power outlet, you're safe to begin working inside			
	ANS: F	PTS: 1	REF:	47			
3.	The motherboard	The motherboard sits on elevated screw holes or spacers to keep it from touching the case.					
	ANS: T	PTS: 1	REF:	56			
4.	A system always well.	needs the 4-pin au	xiliary power c	onnector, and sometimes needs the P1 connector as			
	ANS: F	PTS: 1	REF:	61			
5. A board with PCIe slots might have a 4-pin Molex power connector to provide additional power some types of PCIe boards.							
	ANS: F	PTS: 1	REF:	62			
MUL	TIPLE CHOICE						
1.		ld expansion cards ors		screwdriver			
	ANS: A	PTS: 1	REF:	2			
2.	a. press and hol a moment	d down the power	button for c.	ng the case of a working computer? power down the system and unplug it			
	b. back up impo	PTS: 1	a. REF:	open the case cover			
3.	-	ou normally clip the powe	er cord c.	the side of the computer case? the top of the power supply			
	ANS: C	PTS: 1	REF:	51			
4.	What do you call a. jumper	a connector on a r		at consists of pins that stick up from the board?			

	ANS: D	PTS: 1	REF:	53			
5.	from the bottom	•	•	plastic or metal pegs that separate the motherboard			
	<ul><li>a. header</li><li>b. standoff</li></ul>		c. d.	insulator elevator			
	ANS: B	PTS: 1	REF:	56			
6.	Which of the following represents the correct order in which you should install components into the case after disassembling a computer?						
				cards, motherboard, power supply, drives motherboard, drives, cards, power supply			
	ANS: A	PTS: 1	REF:	60			
7.	a. there are typic hold the mot	ically three screw so herboard to the case	ets that c.	motherboard and connecting power? the P1 connector is used for PCIe devices			
		an adapter to convertors to a PCIe conn		a 4-pin power cord supplies supplemental power to the processor			
	ANS: D	PTS: 1	REF:	60-61			
8.	Which of the foll a. Power SW b. HDD LED	lowing is NOT a typ	c.	r found on the front panel header? SATA controller Power LED+			
	ANS: C	PTS: 1	REF:	64			
9.		Which of the following is the Intel maximum degree limit for processors?					
	<ul><li>a. 185 F</li><li>b. 155 C</li></ul>			90 F 32 C			
	ANS: A	PTS: 1	REF:	67			
10.		s a cooler that sits a	•	nost likely made of? steel			
	<ul><li>a. brass</li><li>b. copper</li></ul>			lead			
	ANS: B	PTS: 1	REF:	68			
11.	airtight connection between the fan and processor?  a. fan shield  c. high-density oil						
	b. metal fins	DTC. 1		thermal compound			
	ANS: D	PTS: 1	REF:				
12.	Along with the p a. BIOS chip b. video card	rocessor, what othe	c.	highest heat producer in the system? disk controller riser card			
	ANS: B	PTS: 1	REF:	70			

d. header

b. socket

13.	<ul><li>a. overclocking</li><li>b. dual-core proces</li></ul>	ssing	g systen c. d.	multiple hard disks installed
	ANS: A	PTS: 1	REF:	71
14.	If your computer is i overheating?	in a dirty, dusty enviro	nment, v	what tool should you use periodically to prevent
	<ul><li>a. all-purpose clear</li><li>b. chip extractor</li></ul>	ner	c. d.	compressed air wet cloth
	ANS: C	PTS: 1	REF:	72
15.	What determines the a. wattage rating b. manufacturer	e physical size of a pow	ver supp c. d.	
	ANS: C	PTS: 1	REF:	74
16.		ing is true about fans in nd in the power supply to run quieter	c.	mputer system? they're usually not needed if your room is cool enough they always run at a fixed speed
	ANS: B	PTS: 1	REF:	74
17.	Which technology n technology? a. SLI b. PCI	nay require that you pu	c.	power supply that specifically supports that  DIMM USB
	ANS: A	PTS: 1	REF:	75
18.	a. DIMMs draw th	ne most power rith CPU tend to draw	•	rchasing a power supply with the correct wattage? fans draw as much power as a video card the power supply should be rated 30% higher than your needs
	ANS: D	PTS: 1	REF:	76
19.	What is the result of a. the fan will not ob. the fan runs at h	operate at all	nector or c. d.	n a 4-pin header on the motherboard? the fan speed cannot be controlled you will not be able to connect the fan connector
	ANS: C	PTS: 1	REF:	68
20.	a. use caution whe	riangle embedded on a n using the connector the triangle is pin 1	connect c. d.	tor signify? the pin near the triangle should be matched with a circular pin the connector is optional and need not be attached
	ANS: B	PTS: 1	REF:	

1.	If you touch an ungrounded component, you could damage it with electricity.
	ANS: static
	PTS: 1 REF: 46
2.	After you unplug the computer, you should press the button for about three seconds.
	ANS: power on/off
	PTS: 1 REF: 47
3.	While working inside the computer, you should clip a bracelet to the computer case
	ANS: ground
	PTS: 1 REF: 51
4.	The front connectors lead from the front of the computer case to the motherboard.
	ANS: panel
	PTS: 1 REF: 55
5.	A uses fins that draw heat away from the processor.
	ANS: heat sink
	PTS: 1 REF: 67
<b>A</b> T	CHING

### MA

a. cooler f. thermal compound b. front panel header g. ground bracelet c. heat sink h. ATX d. overclocking video card expansion slot spacer

- 1. uses fins that draw heat away from the processor
- 2. this sits on top of the processor and consists of a fan and heat sink
- 3. a cream that is placed between the bottom of the cooler heatsink and the top of the processor
- 4. a connector on the motherboard that allows the insertion of a card
- 5. a power supply form factor
- 6. you clip it to the side of the computer case to dissipate any charge between you and the computer
- 7. draws the most power in a system
- 8. running a processor at a higher frequency than recommended
- 9. a connector on a motherboard that consists of pins that stick up from the board
- 10. keeps the motherboard from touching the case

1.	ANS:	C	PTS:	1	REF:	67
2.	ANS:	A	PTS:	1	REF:	67
3.	ANS:	F	PTS:	1	REF:	68
4.	ANS:	J	PTS:	1	REF:	70
5.	ANS:	H	PTS:	1	REF:	74
6.	ANS:	G	PTS:	1	REF:	51
7.	ANS:	I	PTS:	1	REF:	75
8.	ANS:	D	PTS:	1	REF:	77
9.	ANS:	В	PTS:	1	REF:	53
10.	ANS:	E	PTS:	1	REF:	56

#### **SHORT ANSWER**

1. What are three tips you should keep in mind before beginning work inside a computer case?

ANS:

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.

PTS: 1 REF: 46

2. What is the first step you should perform before working inside the case of a working computer?

ANS:

Back up important data.

PTS: 1 REF: 47

3. What should you do after you unplug the computer to be sure the power supply is completely drained?

ANS:

Press and hold down the power button for a moment.

PTS: 1 REF: 47

4. What should you do to dissipate any charge between you and the computer?

ANS:

Clip your ground bracelet to the side of the computer case.

PTS: 1 REF: 51

5. 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?

#### ANS:

Be very careful to diagram how these wires connect because they are never labeled well on a motherboard.

PTS: 1 REF: 55

6. Why are motherboards installed in the case using spacers?

#### ANS:

A motherboard is installed so that the bottom of the board does not touch the case. If the fine traces or lines on the bottom of the board were to touch the case, a short would result when the system is running. To keep the board from touching the case, spacers or standoffs may be used.

PTS: 1 REF: 55-56

7. List and describe three front panel connectors you will likely see going from the front panel to the motherboard.

## ANS:

Power SW. Controls power to the motherboard; must be connected for the PC to power up HDD LED. Controls the drive activity light on the front panel that lights up when any SATA or IDE device is in use (HDD stands for hard disk drive; LED stands for light-emitting diode)

Power LED+. Positive LED controls the power light and indicates that power is on

Power LED-. Negative LED controls the power light; the two positive and negative leads indicate that power is on

Reset SW. Switch used to reboot the computer

PTS: 1 REF: 64

8. Describe the processor cooler and its components.

#### ANS:

The cooler sits on top of the processor and consists of a fan and a heat sink. A heat sink uses fins that draw heat away from the processor. The fan can then blow the heat away.

PTS: 1 REF: 67

9. How does liquid cooling work?

## ANS:

Using liquid cooling, a small pump sits inside the computer case, and tubes move liquid around components and then away from them to a place where fans can cool the liquid, similar to how a car radiator works.

PTS: 1 REF: 71

10. What are two major points you should keep in mind when selecting the correct wattage capacity for a power supply?

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ANS:

Video cards draw the most power. Video cards draw the most power in a system, and they draw from the +12 V output. If your system has a video card, pay particular attention to the +12 V rating. The trend nowadays is for the motherboard to provide the video components and video port, thus reducing the overall wattage needs for a system.

The power supply should be rated about 30 percent higher than expected needs. Power supplies that run at less than peak performance last longer and don't overheat. In addition, a power supply loses some of its capacity over time. Also, don't worry about a higher rated power supply using too much electricity. Components only draw what they need.

PTS: 1 REF: 75