1. What type of connector attaches the AT power supply to the AT motherboard? (Select all that apa. P1

b. P2

c. P8

d. P9

)2. What do you need to remember when connecting the AT power connectors to the motherboard?

a. Keep the red wires together

b. Keep the black wires together

c. Keep the brown wires together

d. It is impossible to put these connectors in wrong

3. What type of connector attaches the ATX power supply to the ATX motherboard?

a. P1

b. P2

c. P8

d. P9

4. Molex connectors supply power to which devices? (Select all that apply)

a. Hard Disks

b. CD and DVD media drives

c. Tape backup drives

d. Zip drives

5. Which piece of equipment will best protect a computer from power spikes?

a. A power strip

b. A power supply

c. A surge suppressor

d. A UL1449 rated outlet

6. In the graphic shown, what is the circled area?

a. The power plug

b. The system fan

c. The voltage selector

d. None of the above

7. Missing slot covers on a computer can cause \_\_\_\_\_\_\_ ?

a. overheating

b. Power surges

c. Electromagnetic interference

d. An incomplete path for ESD

8. Which connector from the power supply supplies power to the hard drive?

a. mini-molex

b. P8

c. P9

d. molex

9. Identify the power connector on this motherboard

a.

b.

c.

d.

10. Which connector from the power supply supplies power for the 3.5 inch floppy drive?

a. mini

b. P8

c. P9

d. molex

11. Most power supplies used in PCs have large \_\_\_\_\_\_\_\_ which absorb most electrical spikes.

a. resistors

b. capacitors

c. potentiometers

d. coils

12. What piece of equipment will protect a computer from a power sag?

a. A grounded AC outlet

b. A UPS

c. A surge supressor

d. A UL1449-rated outlet

13. A power supply +12VDC has dropped to +11.5VDC. What should you do?

a. Replace the power supply with a lower wattage unit

b. Do nothing, as the slight drop is acceptable

c. Replace the power supply with a higher wattage unit

d. Check the capacitors

14. Larry’s PC runs fine but the fan in the power supply is not turning. Which of the following should he do?

a. Check the power switch

b. Replace the power supply

c. Check the fuse in the power supply

d. Replace the fan in the power supply

15. What is the main function of a PC power supply?

a. Recharge the CMOS batteries

b. Protect the PC against power surges and dropoffs

c. Convert DC to low voltage AC

d. Convert AC current to DC current

16. What type of system uses soft power

17. One of the users on your network calls your help desk to report that his computer is “too quiet”, but otherwise works fine. You determine that the power supply fan is not spinning. What do you do next?

a. Do nothing

b. Replace the motherboard

c. Replace the power supply

d. Replace the CMOS battery

18. What wattage would most probably be for a power supply?

a. 2.20

b. 22.0

c. 220.0

d. 2200.0

19. When should you not wear a grounding strap?

a. When preparing to service a CRT

b. When changing RAM

c. When changing an I/O board

d. When replacing a motherboard

20. On most power supplies, a red wire is \_\_\_\_ volts and a yellow wire is \_\_\_\_ volts.

a. 5, 12

b. 12, 5

c. 3.3, 5

d. 5, 3.3

21. How is the relative capacity of a power supply rated?

a. Volts

b. Ohms

c. Watts

d. Farads

22. A PC that worked perfectly yesterday won’t start when the power switch is pressed. What should you check first?

a. Check the power supply’s fuse

b. Check the outlet’s circuit breaker

c. Check to see if the PC is plugged in

d. Check the 12-volt current on any Molex

23. Intermittent lockups and reboots are most likely caused by \_\_\_\_\_\_ .

a. Resource conflicts

b. Bad hard drives

c. Failing power supply

d. Corrupted drivers

24. Which of the following should NOT be plugged into a PC’s UPS?

a. An external SCSI drive

b. A laser printer

c. An external modem

d. Any monitor

25. An electrical sag is a \_\_\_\_\_\_\_\_\_\_\_\_

a. A sudden increase in voltage

b. Conversion of AC to DC

c. Sudden decrease in voltage

d. Conversion of DC to AC

26. Alice is putting a new power supply in an older AT case and motherboard. What colour rule must she follow when attaching P8 and P9 to the motherboard?

a. Black to red

b. Red to red

c. Red to black

d. Black to black

27. Which of the following statements about equipment grounds is true?

a. Grounds may be removed for up to 30 seconds

b. Grounds should never be removed

c. Grounds should be removed if you are working in a damp area

d. Grounds may be removed only if you keep your other hand in your pocket

28. ATX power supplies provide all the following voltages except \_\_\_\_\_

a. –3.3 volts

b. +3.3 volts

c. –5.0 volts

d. +5.0 volts

e. –12.0 volts

f. +12.0 volts

29. Which of the following voltages is NOT commonly produced by an AT power supply?

a. +5 VDC

b. –5 VDC

c. +12 VDC

d. +3.3 VDC

30. In the graphic shown, what is the circled area?

a.

b..

31. What can you measure with a multi-meter? (Select all that apply).

a. High voltage on a CRT

b. Sound levels

c. DC volts

d. Resistance

32. When testing a household’s power outlet, you should read \_\_\_\_\_\_\_ volts between the neutral and the ground.

a. 0

b. 60

c. 120

d. 220

33. Which of the following connectors link(s) the ATX power supply to the ATX motherboard?

a. Molex

b. P8 and P9

c. Mini din

d. P1

34.Missing slot covers in a PC can cause \_\_\_\_\_

a. Power surges

b. Radio frequency interference

c. Electromagnetic interference

d. overheating

35. What is not a voltage of a standard P1 ATX power plug?

a. 2.9 volts

b. 3.3 volts

c. 5 volts

d. 12 volts

36. To prevent electrical shock, which of the following should you disconnect when working inside a PC? (select two)

a. keyboard

b. power cord

c. mouse

d. telephone cord

37.What will completely protect your system from a power surge?

a. Unplug the AC power cord

b. Unplug all power cords and external devices

c. Turn off the power

d. Close all programs

38. What type of conditions promote ESD?

a. Cool, dry air

b. Cool, moist air

c. Warm, dry air

d. Warm, moist air

39. Which of the following are important to reduce the chances of ESD. (Select all that apply).

a. Personnel training

b. Materials used in packing

c. Discharging yourself before handling a device

d. anti-static wrist straps