**ITM-301 Homework #1 (Chapter 1 & 2)**

**Reviewing the Basics**

3. List five types of video ports?

**A: They are VGA (Video Graphics Array) port, S-Video port, DVI (Digital Video Interface) port, HDMI (High-Definition Multimedia Interface) port and Display Port.**

4. What is the purpose of an expansion slot on a motherboard?

**A: The expansion slot is used to hold expansion cards. An expansion card, also called an adapter card, is a circuit board that provides more ports than those provided by the motherboard.**

6. What unit of measure is used to describe the amount of work a surge suppressor can do before it stops protecting the circuit from an electrical surge?

**A: Joules.**

10. A power supply receives 120 volts of \_AC\_\_ power from a wall outlet and converts it to 3.3, 5, and 12 volts of \_DC\_\_\_ power.

**A: AC (Alternating Current); DC (Direct Current)**

12. Which two tools can a PC support technician use when taking apart a computer to best protect computer components against ESD?

**A: Ground bracelet and antistatic gloves.**

14. What are the three purposes accomplished by the motherboard BIOS?

**A: 1. System BIOS manages essential devices (such as keyboard, mouse, hard drive and monitor);**

**2. Start up BIOS is used to start the computer;**

**3. BIOS setup is used to configure the motherboard.**

16. What technology standard provides for up to four drives installed in a system?

**A: PATA (Parallel ATA), also called EIDE (enhanced integrated drive electronics) or IDE.**

17. How many pins does the P1 connector have that uses the ATX Version 2.2 standard?

**A: 24.**

20. What is the purpose of the 4-pin Molex connector?

**A: The 4-pin Molex connector is used for IDE (PATA) drives**

**Thinking Critically**

4. When troubleshooting a computer hardware problem, which tool might help with each of the following problems?

**a. You suspect the network port on a computer is not functioning.**

**A: Loopback plug.**

**b. The system fails at the beginning of the boot and nothing appears on the screen.**

**A: POST diagnostic card.**

**c. A hard drive is not working and you suspect the Molex power connector from the power supply might be the source of the problem.**

**A: Multimeter.**