1. Name three types of hard drive for data storage in a Personal Computer (PC).

2. What file system would a pc technician use on a hard drive that will the Windows XP, Windows Vista and Windows 7 operating system?

3. What is located on the hard drive and begins the loading of the operating system?

4. The primary partition of a hard drive is typically assigned a drive letter. What letter is the primary partition or volume assigned?

5. The CD or DVD RW is typically assigned a drive letter. What letter is the CD or DVD RW assigned?

6. What is written to the hard drive at the factory during low level formatting?

7. What is the following called:
   a. On IDE channel one, one Parallel ATA (PATA) drive with the jumper set as master and another PATA drive with its jumper set as slave
   b. On IDE channel one, one Parallel ATA (PATA) drive with the jumper set as cable select
   c. On IDE channel one, one Parallel ATA (PATA) drive with the jumper set as cable select and on IDE channel 2, a DVD RW drive with its jumper set as cable select
   d. On IDE channel one, one Parallel ATA (PATA) drive with the jumper set as master and another PATA drive with its jumper set as slave. On IDE channel 2, a DVD RW drive with its jumper set as cable select

8. Describe the connector where we plug in a power supply IDE "Molex" power cable.

9. Describe the connector where we plug in an ATA33, 66 or above communication cable.

10. Explain where to plug the following colored IDE connectors
    a. Blue
    b. Black
    c. Grey

11. What does the red stripe on the ATA 33 or above cable stand for?

12. What is the difference between 40 and 80 conductors on an ATA ribbon cable?

13. Which type of drive support hot swapping?

14. What is the data transfer rates for ATA 33, 66, 100 and 133 ribbon cables?

15. What are the data transfer rates for SATA data cables?

16. What is the RAID level for each description?
    a. When information is sent to the hard drive it is shared among two or more drives therefore completing the process in less time.
    b. A second drive contains all of the information from the first drive including the operating system
    c. Two drives are parity drives and they are mirrored by two drives
    d. In a Windows operating system, one drive contains the operating system and three drives contain data.

17. Match the pin counts for drive connectors on a motherboard.
    a. IDE drive connector
    b. Floppy disk connector
    c. SATA drive connector
    d. SCSI drive connector

18. What is the maximum number of devices can we put on a serial attached SCSI chain?

19. Hard drives come in what physical sizes?

20. What are the data transfer terms from smallest to largest?

21. What is the technology where the BIOS monitors the health of the hard drive?

22. What are the parts of a magnetic hard drive? How many heads, the surface that data can written to read from, does a hard drive that has four platters have?