

Note: questions are grouped by chapter to make studying easier – questions on the actual exam will be grouped by type (T/F, multiple choice, long answer) & randomized.

Chapter 01:

1. Virus is a general term for harmful programs installed without the user's knowledge, while malware is a specific type of virus that changes the way a computer operates.
T F
2. Data can be transformed into information via data processing operations.
T F
3. Hardware refers to the physical parts of a computer system while _____ refer(s) to the intangible components.
a. operating systems b. applications c. software d. malware e. processing
4. A(n) _____ is a collection of hardware, computer systems and other devices that are connected together and can communicate with each other.
a. network b. Internet c. server d. web site e. computer
5. Which of the following is **not** a basic primary computer operation?
a. input b. processing c. output d. storage e. heating
6. Write out an example URL and label the key parts:

Chapter 02:

7. ASCII cannot represent as many characters as Unicode.
T F
8. There is typically only a single data bus in a personal computer.
T F
9. A(n) _____ may be installed inside a computer to increase its functionality.
a. motherboard b. register c. remote device d. expansion card e. LAN
10. There are _____ bits in a byte of memory.
a. 6 b. 8 c. 7 d. 2 e. it varies
11. Convert the following number to binary: 1234

12. List, in order, the steps of the machine processing cycle:

Chapter 03:

13. Storage media, unlike RAM, is volatile.

T F

14. Hard drives have a single spiral track while tracks on an optical disc consist of concentric circles.

T F


15. _____ are the three components that determine the total time it takes for a hard drive to read or write data.

- a. Seek time, rotational delay & data transfer time
- b. Seek time, rotational delay & data processing time
- c. Capacity, rotational delay & data processing time
- d. Capacity, clock speed & data transfer time
- e. Partitioning, clock speed & mirroring

16. Magnetic tape systems are **not** _____.

- a. sequential access
- b. used for archival purposes
- c. used for backup purposes
- d. random access
- e. magnetic media based

17. Assume you have the following information on an optical disc: land, land, pit, land, pit, pit, pit, land.

Graphically, you could represent this as: 

Write out the corresponding binary pattern for the data encoded on that section of the disc.

Extra credit: write out the corresponding decimal number for the binary data in question 17.

18. Briefly, describe the difference between RAID 0 and RAID 1.

Chapter 04:

19. Optical scanner resolution is typically measured in DPI.

T F

20. Printer resolution is typically measured in DPI.

T F

21. A(n) _____ is not an example of biometric data, but a(n) _____ is.

- a. spoken password, finger print
- b. finger print, typed password
- c. typed password, finger print
- d. iris scan, RFID chip
- e. RFID chip, iris scan

22. Give an example of a device that acts as both an input & output device. Explain your answer.

Chapter 05:

23. Command line interfaces are completely non graphical.

T F

24. The two primary goals of an operating system are programmability & automated computation.

T F

25. A(n) _____ is a section of memory designated to hold input or output on their way into or out of the system.

- a. spool b. partition c. virtual memory segment d. sector e. buffer

26. Which of the following is not part of process management?

- a. creation
- b. synchronization
- c. deletion
- d. formatting
- e. scheduling

27. List the primary job categories of an operating system: