

Lecture 3

MCQs

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1. What do we call the time it takes for all of the sub-pixels on the panel to change from one state to another?
 - A. Refresh rate
 - B. Redraw rate
 - C. Response rate
 - D. Vertical refresh rate

2. What provides the illumination for LCD monitors?
 - A. Backlights
 - B. Inverter
 - C. Lamp
 - D. LCD panel

3. What is 1080p resolution?
 - A. 1024×768
 - B. 1280×1024
 - C. 1680×1050
 - D. 1920×1080

4. Which statement about LCDs is most accurate?
 - A. The concept of refresh rate has no meaning with regard to LCDs.
 - B. LCDs are preferred to CRTs because they can display a larger range of resolutions.
 - C. LCDs tend not to be as clear as CRTs.
 - D. LCDs require more power than CRTs.

5. Which of the following is true regarding a monitor's refresh rate?
 - A. As long as the graphics adapter can refresh the image at a particular rate, the attached monitor can accommodate that refresh rate.
 - B. The refresh rate is normally expressed in MHz.
 - C. The refresh rate is normally selected by using the controls on the front panel of the monitor.
 - D. As you lower the resolution, the maximum refresh rate allowed tends to increase.

6. You want to plug a keyboard into the back of a computer. You know that you need to plug the keyboard cable into a PS/2 port. Which style of port is the PS/2?
 - A. RJ-11
 - B. DE9
 - C. DIN 5
 - D. Mini-DIN 6
7. What is the maximum speed of USB 2.0 in Mbps?
 - A. 1.5
 - B. 12
 - C. 60
 - D. 480
8. What peripheral port type was originally developed by Apple and is currently regarded as the optimal interface for digital video transfers?
 - A. DVD
 - B. USB 2.0
 - C. IEEE 1394
 - D. IEEE 1284
9. Which peripheral port type was designed to transfer data at higher speeds over a D-sub interface?
 - A. DVD
 - B. USB
 - C. IEEE 1394
 - D. IEEE 1284
10. What kind of device uses unique physical traits of the user to authenticate their access to a secure system or location?
 - A. Barcode reader
 - B. Biometric device
 - C. Keyboard
 - D. Touch screen
11. Why might you use a KVM switch?
 - A. You have multiple Ethernet devices that need to communicate with one another.
 - B. You need to be able to switch the voltage supplied to a particular device.
 - C. You have a printer that is not attached to the network but you want multiple computers to be able to print to it.

D. You have more than one server and don't want to buy certain external peripherals separately for each.

12. Which type of input device employs roughly the same connector as the original AT keyboard?

- A. Barcode reader
- B. PS/2 keyboard
- C. MIDI
- D. Touch screen

13. Which category of adapters includes NICs?

- A. Multimedia
- B. I/O
- C. Communications
- D. Video

14. What category of adapter would you need to install to equip a system with one or more USB ports?

- A. Multimedia
- B. I/O
- C. Communications
- D. Video

15. What type of adapter has an RJ-11 jack built in?

- A. Modem
- B. Video
- C. Sound
- D. NIC

16. Which optical disc format supports a data capacity of 25GB?

- A. Double-sided, double-layer DVD+R
- B. Single-sided, single-layer Blu-ray disc
- C. Double-sided, single-layer DVD-R
- D. Double-sided, single-layer DVD+R

17. What is the physical component where data is stored in a HDD?

- A. Read/write head
- B. Platter
- C. Sector
- D. Cluster

18. Which of the following is not one of the three major components of a hard disk drive system?
- A. Drive interface
 - B. Controller
 - C. Hard disk
 - D. Host adapter
19. Which of the following best describes the concept of hot-swappable devices?
- A. Power does not need to be turned off before the device is inserted or removed.
 - B. The device can be removed with power applied after it is properly stopped in the operating system.
 - C. Care must be taken when swapping the device because it can be hot to the touch.
 - D. The device can be swapped while still hot, immediately after powering down the system.
20. How many pins does a SATA power connector have?
- A. 6
 - B. 9
 - C. 12
 - D. 15
 - E. 7
21. Which RAID standard requires at least four drives?
- A. RAID 1
 - B. RAID 4
 - C. RAID 5
 - D. RAID 10
22. What happens if you cable a PATA hard drive incorrectly?
- A. You can destroy that hard drive.
 - B. The data will be erased, but the hard drive will be okay.
 - C. The system will not be able to communicate with that hard drive.
 - D. The drive installs in compatibility mode.
23. Ray wants to install a new internal SATA hard drive in his computer. Which types of cables should he connect to the drive? (Select the two best answers.)
- A. 7-pin data cable
 - B. 40-pin data cable
 - C. 4-pin power cable

D. 15-pin power cable

24. Which level of RAID refers to disk mirroring with block striping?

- A. RAID level 10
- B. RAID level 2
- C. RAID level 0
- D. RAID level 3

25. How many pins does a standard IDE controller have?

- A. 33 pins
- B. 40 pins
- C. 50 pins
- D. 20 pin

Answers:

1. C. The amount of time it takes for all of the sub-pixels on the panel to go from pure black to pure white and back again is called the response rate.
2. A. The backlights provide the illumination for the LCD panel.
3. D. 1080p resolution is 1920 × 1080.
4. C. At the same resolution, CRTs are more likely to display a clearer image than LCDs. LCDs are normally limited to a fixed, native resolution but require less power than CRT monitors. Although LCD screens are not regularly and systematically refreshed the way CRTs are, the LCD refresh rate dictates how often any one pixel is allowed to change.
5. D. The maximum allowable refresh rate does tend to be affected by the resolution you choose in the operating system. The refresh rate is most often expressed in cycles per second (Hz), not millions of cycles per second (MHz). You must usually select the refresh rate you want from the display settings dialog boxes, not through the monitor's built-in menu system, although the monitor's system can often tell you which refresh rate you're using. Finally, both the monitor and adapter must agree on the refresh rate you select. If either device does not support a particular refresh rate, such a rate cannot be used.
6. D
7. D
8. C
9. D
10. B
11. D
12. C
13. C
14. B
15. A

16.B
17.B
18.D
19.A
20.D
21.D
22.C
23.A
24.A
25.B