

IT Essentials (ITE v6.0) Chapter 7 Exam Answers 100% 2016

1. How many devices can a Bluetooth device connect to simultaneously?
 - 127
 - **7**
 - 10
 - 24
 - 5
2. A device has an IPv6 address of 2001:0DB8:75a3:0214:0607:1234:aa10:ba01 /64. What is the host identifier of the device?
 - 2001:0DB8:75a3
 - **0607:1234:aa10:ba01**
 - 2001:0DB8
 - ba01
3. Which layer of the OSI model is responsible for logical addressing and routing?
 - application
 - data link
 - **network**
 - transport
4. When would a printer be considered a network host?
 - **when it is connected to a switch**
 - when it is connected to a workstation
 - when it is connected to a laptop
 - when it is connected to a PC
5. Which device provides wireless connectivity to users as its primary function?
 - switch
 - router
 - **access point**
 - modem
6. Which technology is most often used to connect devices to a PAN?
 - coaxial cabling

- Bluetooth
 - fiber optic cabling
 - IEEE 802.11n wireless
7. Which three factors are reasons for a company to choose a client/server model for a network instead of peer-to-peer? (Choose three.)
- The network is small with fewer than eight users.
 - The company network requires secure access to confidential information.
 - The users need a central database to store inventory and sales information.
 - Each user understands how to safely share files across a network.
 - The data gathered by the employees is critical and should be backed up on a regular basis.
 - All employees passed a strict background check as part of the corporate hiring practices.
8. What is a characteristic of a WAN?
- It connects multiple networks that are geographically separated.
 - It spans across a campus or city to enable sharing of regional resources.
 - It is typically owned and managed by a single home or business.
 - It requires a wireless access point to connect users to the network.
9. Which three layers of the OSI model map to the application layer of the TCP/IP model? (Choose three.)
- application
 - presentation
 - session
 - transport
 - network
 - data link
 - physical
10. What is the correct order of the layers of the TCP/IP model from the top layer to the bottom?
- application, session, network, data link, physical
 - application, internet, network access, transport
 - network access, transport, internet, application
 - application, transport, internet, network access
11. What TCP/IP model layer is responsible for MAC addressing?
- network access

- internet
- transport
- application

12. What PDU is associated with the network layer of the OSI model?

- data
- frame
- packet
- segment

13. Which two layers of the OSI model correspond to the functions of the TCP/IP model network access layer? (Choose two.)

- physical
- data link
- network
- transport
- session

14. What is identified by the 100 in the 100BASE-TX standard?

- the maximum bandwidth in Mb/s
- the maximum cable distance in meters
- the maximum number of network nodes
- the series number of the standard

15. Which two characteristics describe Ethernet technology? (Choose two.)

- It is supported by IEEE 802.3 standards.
- It is supported by IEEE 802.5 standards.
- It typically uses an average of 16 Mb/s for data transfer rates.
- It uses the CSMA/CD access control method.
- It uses a ring topology.

16. Which IEEE standard operates at wireless frequencies in both the 5 GHz and 2.4 GHz ranges?

- 802.11n
- 802.11g
- 802.11b
- 802.11a

17. A customer is considering a multipurpose device to create a home network. Which three devices are usually integrated into a multipurpose network device? (Choose three.)
- ☐ web server
 - ☒ switch
 - ☒ router
 - ☐ email server
 - ☒ wireless access point
 - ☐ print server
18. Which network device makes forwarding decisions based on the destination MAC address that is contained in the frame?
- ☐ repeater
 - ☐ hub
 - ☒ switch
 - ☐ router
19. A **router** uses IP addresses to forward traffic from one network to other networks.
20. A network specialist has been hired to install a network in a company that assembles airplane engines. Because of the nature of the business, the area is highly affected by electromagnetic interference. Which type of network media should be recommended so that the data communication will not be affected by EMI?
- ☐ STP
 - ☐ coaxial
 - ☒ fiber optic
 - ☐ UTP
21. Which term describes a type of coaxial cable?
- ☒ RG-6
 - ☐ 568A
 - ☐ UTP
 - ☐ Cat 5e
22. Which pairs of wires change termination order between the 568A and 568B standards?
- ☒ green and orange
 - ☐ green and brown

- blue and brown
- brown and orange

23. Which two types of signal interference are reduced more by STP than by UTP?
(Choose two.)

- RFI
- white noise
- MDF
- dispersion
- EMI

24. How many host addresses are available on a network with a subnet mask of 255.255.0.0?

- 65,534
- 254
- 16,777,214
- 1024

25. A technician is troubleshooting a problem where the user claims access to the Internet is not working, but there was access to the Internet the day before. Upon investigation, the technician determines that the user cannot access the network printer in the office either. The network printer is on the same network as the computer. The computer has 169.254.100.88 assigned as an IP address. What is the most likely problem?

- The computer cannot communicate with a DHCP server.
- The IP default gateway on the computer is incorrect.
- The network interface card driver needs to be updated.
- The router that connects this network to other networks is down.

26. What is a characteristic of the UDP protocol?

- low overhead
- guaranteed delivery
- error correction
- end-to-end establishment before delivery