

LOCATION: SWANSEA

LLEOLIAD: ABERTAWE

LEVEL 4

LEFEL 4

EXAMINATION PERIOD

MARCH

CYFNOD ARHOLIADAU

MAWRTH

MODULE CODE: ACCA4024

Networks and cybersecurity Essentials (20 credits / 200hrs)

TIME: 1 HOUR

ANSWER ALL QUESTIONS

The contribution to overall Module Assessment is 50%

Equipment or materials required. Please select from the following:

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Cyfrifiannell/Calculator ☐

Llyfr Agored/Open Book ☐

Arall/Other ☐

**ANSWER ALL QUESTIONS
FROM MOODLE LINK ONLINE EXAM**

1. To which address is a limited broadcast sent to ?

- A. 255.255.255.255
- B. 255.255.0.0
- C. 172.16.1.0
- D. 0.0.0.0

Answer A

2. What are disadvantages of deploying a peer-to-peer network model? Choose two.

- A. all the above
- B. lack of high security
- C. lack of central administration
- D. lack of scalability

Answer B, C

3. DHCP is used to automatically assign IP address to hosts.

- A. False
- B. True

Answer B

4. The range of wireless technologies most frequently used in home networks are

- A. unlicensed 902 to 929 Mhz frequency ranges
- B. unlicensed 2.4 GHz and 5 GHz frequency ranges
- C. licensed 902 to 929 Mhz frequency ranges
- D. licensed 2.4 GHz and 5 GHz frequency ranges

Answer B

5. A consumer places his debit card close to a pay terminal at a shop and the shopping charge is successfully paid. Which type of wireless technology was used?

- A. Bluetooth
- B. 4G
- C. Wi-Fi
- D. RFID

Answer D

6. When two computers are directly connected to one another using either wired or wireless media, the resultant network is known as

- A. Client Server Network
- B. Peer to Peer Network

- C. Interconnected Network
- D. Scalable Network

Answer B

7. The data which individuals create and explicitly share in platforms like social media profiles is classified as
- A. Volunteered Data
 - B. Observed Data
 - C. Inferred Data
 - D. Big Data

Answer A

8. Which type of network cable can be extended for several miles and could be immune for EMI and RFI?
- A. coaxial cable
 - B. twisted-pair cable
 - C. Multipair cable
 - D. fiber-optic cable

Answer D

9. Which type of network cable is commonly used to connect office computers to the local network?
- A. twisted-pair cable
 - B. coaxial cable
 - C. glass fiber-optic cable
 - D. plastic fiber-optic cable

Answer A

10. The layer which describes how a device accesses and sends data over the network media in the TCP/IP model?
- A. application
 - B. internet
 - C. Network Access
 - D. transport

Answer C

11. What is the maximum size of a valid Ethernet frame?
- A. 1522 bytes
 - B. 1518 bytes
 - C. 1400 bytes
 - D. 2048 bytes

Answer B

12. A network design engineer has been asked to design the IP addressing scheme for a customer network which requires 255 hosts. The network design engineer decides to use IP addresses from the 192.168.20.0/24 network. Will this IP addressing scheme accommodate all the hosts in the customer network?

- A. Yes, the network is having the required usable hosts
- B. No, the network is not having required usable hosts

Answer B

13. The network which is using 192.168.11.0/24 network allocates 254 IP addresses for the hosts on the network but excludes 192.168.11.0/24 and 192.168.11.255/24 IP addresses. Why?

- A. These two IP addresses are reserved for email and DNS Servers
- B. These two IP addresses are used for DHCP servers and default gateway
- C. These two IP addresses are reserved to route through the internet.
- D. These two IP addresses are network IP Address and network broadcast address

Answer D

14. Routers can eliminate excessive broadcast traffic by subdividing networks into separate broadcast domains. That means,

- A. Routers forward broadcast by default
- B. Routers do not forward broadcast by default

Answer B

15. Private IP addresses are designed to be exclusively used for external networks and they can be used on the Internet

- A. True
- B. False

Answer B

16. The URL identifies the MAC address of the web server

- A. True
- B. False

Answer B

17. Hypertext Transfer Protocol is used by web servers to serve up a web page

- A. True
- B. False

Answer A

18. In Wireless networks, which wireless security initiative helps to secure sensitive information during data transit?

- A. Authentication
- B. Encryption
- C. IP Address filtering
- D. MAC Address filtering

Answer B

19. What is the process of placing one message inside another message format called?

- A. Encapsulation
- B. De-encapsulation
- C. Fragmentation
- D. De-fragmentation

Answer A

20. Streaming audio and video applications require receipt of all packets regardless of delay.

- A. True
- B. False

Answer B

21. Which port can be used for the initial configuration of a Cisco router remotely through a dialup phone line and a modem connected

- A. AUX
- B. console
- C. flash slot
- D. LAN interface
- E. WAN interface

Answer A

22. To remotely connect a switch or a router securely for management tasks, we shall use

- A. Telnet
- B. SSH
- C. None
- D. Both

Answer B

23. Which protocol uses plaintext communications for all transmitted data between devices during remote connections?

- A. Telnet
- B. SSH
- C. None
- D. Both

Answer A

24. While configuring Wireless access points/ wireless routers, which type of device filtering technique is used to enhance the security?

- A. Authentication
- B. Encryption
- C. IP Address
- D. MAC Address

Answer D

25. Which address is reserved for experimental purposes?

- A. 242.1.2.3
- B. 239.1.2.3
- C. 223.1.2.3
- D. 127.1.2.3

Answer A

26. You receive an email posing to be a Human Resource Manager of a company and the email states about offering a job for which you have never applied. They have shared a link and ask you to complete a consent form to complete the process of employment. What possible type of attack it could be?

- A. Phishing
- B. Vishing
- C. DDoS
- D. Brute force

Answer A

27. Which one of the following describes the User Datagram protocol best?

- A. Reliable
- B. Low latency
- C. Maximum bandwidth
- D. All the above

Answer B

28. A network technician is statically assigning a class B IP address as 172.16.20.10 and Subnet Mask as 255.0.0.0 to a PC. What is wrong in this configuration?

- A. Wrong Subnet Mask. It should be 255.255.0.0
- B. Wrong Subnet Mask. It should be 255.255.255.255

- C. Wrong Subnet Mask. It should be 255.255.255.0
- D. Wrong Subnet Mask. It should be 255.0.0.0

Answer A

29. After troubleshooting a network problem, what should you do as a network administrator?
- A. Refer to FAQ.
 - B. Escalate the problem.
 - C. Update the documentation.
 - D. Run remote access software.

Answer C

30. The Ping command is used to
- A. test the end-to-end connectivity between hosts
 - B. display the network connections
 - C. display the route information from source to destination
 - D. none of the above

Answer A

31. The attacker uses invented scenarios to gain the trust of victim is
- A. Phishing
 - B. Vishing
 - C. Pretexting
 - D. Tailgating

Answer C

32. The architecture that decouples the control and data plane is
- A. Software Defined Networking
 - B. Legacy Networking
 - C. Traditional Networking
 - D. None of the above

Answer A

33. One of the below commands communicates with the name server for details about the destination domain is
- A. Ping
 - B. Tracert
 - C. nslookup
 - D. netstat

Answer C

34. The function that provides secure remote access to servers
- A. DNS

- B. DHCP
- C. SSH
- D. Telnet

Answer C

35. Which utility lists the protocol in use, the local address and port numbers, the foreign address and port numbers, and the state of the connection?

- A. Ping
- B. Tracert
- C. Ipconfig
- D. netstat

Answer D

36. One of the main advantages of wireless network technology is

- A. Fairly easy to install
- B. Inexpensive
- C. Easy expansion
- D. All the above

Answer D

37. All devices that wish to participate in the WLAN need not have the same SSID.

- A. True
- B. False

Answer B

38. Applications and services offered for a specific organization or entity such as government institutions, enterprise organizations etc. are categorized under

- A. Private Cloud
- B. Public Cloud
- C. Hybrid Cloud
- D. Community Cloud

Answer D

39. There are many advantages in virtualization. One major advantage is

- A. Slow server provisioning
- B. Decreased Server uptime
- C. Increased Server idle time
- D. Increased Server uptime

Answer D

40. The type of hypervisor which is installed directly on the server or networking hardware is

- A. Virtual Box Hypervisor
- B. Type 2 Hypervisor

- C. Bare Metal Hypervisor
- D. Hosted Hypervisor

Answer C

Diwedd/End