

RAOUL CS

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LOCATION BIRMINGHAM

LEVEL 4

EXAMINATION PERIOD

MAY 2023

MODULE CODE: ACCA4024_BIRM
NETWORK AND CYBERSECURITY ESSENTIALS

TIME: 1 HOUR

TOTAL: 50 MARKS

ANSWER ALL QUESTIONS

Equipment or materials required – None

The Candidates are not permitted to bring calculators, dictionaries; textbooks/case studies or any other reference materials into the exam room.

Show all your calculations in your exam book

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ANSWER ALL QUESTIONS

PART 1 – each question carries 1 mark

Q 1. Connecting two computers directly to one another using either wired or wireless connection is known as

- a. Peer to Peer Network
- b. Scalable Network
- c. Client Server Network
- d. Interconnected Network

Q 2. A _____ is a data communication system within a building, plant, or campus, or between nearby buildings.

- a. LAN
- b. MAN
- c. WAN
- d. none of the above

Q 3. Routers can eliminate excessive broadcast traffic by subdividing networks into separate broadcast domains. That means,

- a. Routers forward broadcast by default
- b. Router do not forward broadcast by default

Q 4. A _____ copies and sends a transmission to every destination node on the network.

- a. Unicast
- b. Broadcast
- c. Full duplex
- d. FDDI
- e. Multicast

Q 5. What is a limitation of deploying a peer-to-peer network model?

- a. Lack of central administration
- b. Lack of scalability
- c. High security
- d. All of the above

Q 6. Which of these technologies is used when a consumer successfully makes payment by simply placing her debit card close to a pay terminal at a shop?

- a. Bluetooth
- b. 3G
- c. WiFi
- d. RFID

Q 7. Twisted pair cable can be extended for several miles and could be immune for EMI and RFI?

- a. True
- b. False

Q 8. Which type of network cable is commonly used to connect office computers to the local network?

- a. Coaxial cable
- b. Plastic fiber-optic cable
- c. Glass fiber-optic cable
- d. Twisted-pair cable

Q 9. Transport layer describes how a device accesses and sends data over the network media in the TCP/IP model?

- a. True
- b. False

Q 10. An unauthorized user is a network issue.

- a. Performance
- b. Reliability
- c. Security
- d. All the above

Q 11. What is the reverse process of placing one message inside another message format is called?

- a. Fragmentation
- b. De-fragmentation
- c. Encapsulation
- d. De-encapsulation

Q 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 192.168.10.0/24 network. Will this IP addressing scheme accommodate all the hosts in the customer network?

- a. Yes
- b. No

Q 13. The network which is using 192.168.1.0/24 network allocates 254 IP addresses for the hosts on the network but excludes 192.168.1.0/24 and 192.168.1.255/24 IP addresses. Why?

- a. These two IP addresses are network IP Address and network broadcast address
- 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 reserved for email and DNS Servers

Q 14. DHCP is a used to automatically assign IP address to hosts.

- a. True
- b. False

Q 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

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

- a. True
- b. False

Q 17. What is the size of the IP version 4?

- a. 22 bytes
- b. 32 bits
- c. 32 bytes
- d. 99 bytes

Q 18. Streaming audio and video applications require receipt of all packets regardless of delay.

- a. True
- b. False

Q 19. Which port can be used for the initial configuration of a Cisco router remotely through a dialup phone line and a modem connected?

- a. Console
- b. Flash slot
- c. Lan interface
- d. AUX

Q 20. To remotely connect a switch or a router securely for management tasks, we shall use

- a. None
- b. SSH
- c. Telnet
- d. Both

Q 21. The _____ is the physical path over which a message travels

- a. IP Address
- b. Medium
- c. Protocol
- d. Route

Q 22. Two devices are in network if

- a. A process in one device can exchange information with a process in another device
- b. process is running on both devices
- c. PIDs of the processes running of different devices are same
- d. none of the mentioned

Q 23. In Wireless networks, which wireless security initiative helps to secure sensitive information during data transit?

- a. IP Address filtering
- b. Authentication
- c. MAC Address filtering
- d. Encryption

Q 24. Router operates in Transport layer of OSI Reference Model

- 1. True
- 2. False

Q 25. When segmenting a LAN, what device cannot be used to reduce the collision domain?

- a. Bridge
- b. Switch
- c. Hub
- d. Router

Q 26. Which one of the following describes the User Datagram protocol best?

- a. Maximum bandwidth
- b. Low latency
- c. Reliable
- d. All of the above

Q 27. 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 255.254.0.0
- b. Wrong subnet mask, it should be 255.255.0.0
- c. Wrong subnet mask, it should be 255.255.1.0
- d. Wrong subnet mask, it should be 255.255.255.0

Q 28. After troubleshooting a network problem, what should you do as a network administrator?

- a. Update document
- b. Run remote access software
- c. Escalate the problem
- d. Refer to FAQ

Q 29. What is a firewall?

- a. A proxy server.
- b. A router
- c. Hardware and/or software that restricts access to data on a network.
- d. A private server on a public network

Q 30. The Ping command is used to

- a. None of the above
- b. Display the network connections
- c. Test the end-to-end connectivity between hosts
- d. Display the route information from source to destination

Q 31. The attacker uses invented scenarios to gain the trust of victim is

- a. Vishing
- b. Tailgating
- c. Pre-texting
- d. Phishing

Q 32. The function that provides secure remote access to servers

- a. DHCP
- b. DNS
- c. SSH
- d. Telnet

Q 33. The function that provides information about all active connections

- a. Ipconfig
- b. Tracert
- c. Ping
- d. Netstat

Q 34. One of the main advantages of wireless network technology is

- a. Easy expansion
- b. Inexpensive
- c. Fairly easy to install
- d. All of the above

Q 35. Which layer in the OSI model do MAC addresses and switches use?

- a. Physical
- b. Data Link
- c. Network
- d. Transport

Q 36. All devices that wish to participate in the WLAN need not have the same SSID.

- a. False
- b. True

Q 37. Applications and services offered for a specific organization or entity such as government institutions, enterprise organizations etc. are categorized under private cloud.

- a. True
- b. False

Q 38. There are many advantages in virtualization. One major advantage is

- a. Decreased server uptime
- b. Increases server uptime
- c. Increase server idle time
- d. Slow server provisioning

Q 39. What type of communication is sent to a single designated host?

- a. Unicast
- b. Broadcast
- c. Multicast
- d. Anycast

Q 40. The architecture that decouples the control and data plane is

- a. Legacy networking
- b. Traditional networking
- c. Software defined networking
- d. None of the above

PART 2 – each question carries 2 marks

Q 41. What are the two most important pieces of information a ping command provides about a network connection?

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Q 42. Briefly explain the Physical Layer of the OSI model and give two examples of equipment it defines?

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Q 43. What are the differences between fibre optic cable and twisted pair cable?

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Q 44. Briefly describe two types of malware/malicious code?

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Q 45. Briefly describe two ways to defend against malicious attack on a wireless network.

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