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Vendor: CompTIA

Exam Code: CN0-201

Exam Name: CompTIA CTP+ Certification Exam

Version: Demo

Exam A

QUESTION 1

H.323 is a group of protocols defined by the International Telecommunication Union for multimedia conferences over Local Area Networks. H.323 uses ASN.1 binary code.

Which of the following layers of the OSI model is responsible for translating, processing, and reading ASN.1 and ASCII messages?

- A. Transport layer
- B. Application layer
- C. Physical layer
- D. Presentation layer

Correct Answer: D

QUESTION 2

Which of the following devices is used to make decisions based on MAC addresses and is considered the most appropriate device to use when limiting broadcast domains for devices that will process voice data?

- A. Layer 3 switch
- B. Repeater
- C. Layer 2 switch
- D. MCU

Correct Answer: C

QUESTION 3

Which of the following are endpoints in Cisco Unified Communications? Each correct answer represents a complete solution. Choose two.

- A. Switches
- B. Routers
- C. Gateways
- D. IP phones

Correct Answer: CD

QUESTION 4

Which of the following is a mechanism used by the Multimedia Extensions (WME) standard to avoid contentions in a particular traffic category?

- A. Sliding Window Protocol
- B. Contention Window (CW)
- C. Auto-Rate Fallback
- D. Maximum Segment Size (MSS)

Correct Answer: B

QUESTION 5

Adam works as a Sales Engineer for Umbrella Inc. One of his customers complains that the PBX is getting reset several times in a day. Adam finds that the power LEDs of PBX are fluttering. He suspects that faulty power supply is the cause of this problem.

Which of the following troubleshooting tools should Adam use to verify these suspicions?

- A. Continuity tester
- B. Line tester

- C. Volt meter
- D. T-BERD 4000

Correct Answer: C

QUESTION 6

You work as a network consultant for Net World International. You are designing a network for a client company. The proposed network will use a class B address for its network. The network will be divided into thirty-two subnets.

Which of the following subnet masks will you use to design the network?

- A. 255.255.252.0
- B. 255.252.0.0
- C. 255.255.248.0
- D. 255.248.0.0

Correct Answer: A

QUESTION 7

Which of the following ITU standards specifies PCM voice coding at 64 kbps?

- A. G.726
- B. G.728
- C. G.729
- D. G.711

Correct Answer: D

QUESTION 8

Which of the following statements are true about session hijacking? Each correct answer represents a complete solution. Choose all that apply.

- A. Use of a long random number or string as the session key reduces session hijacking.
- B. It is used to slow the working of victim's network resources.
- C. TCP session hijacking is when a hacker takes over a TCP session between two machines.
- D. It is the exploitation of a valid computer session to gain unauthorized access to information or services in a computer system.

Correct Answer: ACD

QUESTION 9

Rick, an administrator of a TCP/IP network, wants to achieve the following goals:

- I Reduce congestion of network traffic.
- I Optimize the utilization of the IP address space.

Which of the following technologies may help him to accomplish the task?

- A. Pinging
- B. Supernetting
- C. Routing
- D. Subnetting

Correct Answer: D

QUESTION 10

Voice over IP is an application that requires efficient use of bandwidth and reliability. VoIP must not suffer

the delays that can be seen at times with Web sites and Web applications.

Which technology can be used to help ensure the efficient transport of VoIP traffic?

- A. RTP
- B. QoS
- C. DNS
- D. RSTP

Correct Answer: B

QUESTION 11

Which of the following are examples of interactive communication? Each correct answer represents a complete solution. Choose all that apply.

- A. Video Conferencing
- B. E-mail
- C. Fax
- D. Phone call

Correct Answer: AD

QUESTION 12

Which of the following devices is used to create VLANs in a small network?

- A. Repeater
- B. Switch
- C. Hub
- D. Bridge

Correct Answer: B

QUESTION 13

Which of the following protocols provides sequence numbers to VoIP packets?

- A. TCP
- B. RTP
- C. UDP
- D. SCCP

Correct Answer: B

QUESTION 14

You have just set up a wireless network for customers at a coffee shop. Which of the following are good security measures to implement?

Each correct answer represents a complete solution. Choose two.

- A. Not broadcasting SSID
- B. MAC filtering the router
- C. Using WEP encryption
- D. Using WPA encryption

Correct Answer: CD

QUESTION 15

Which of the following protocols is used by VoIP applications for communication initiation in the network?

- A. TLS
- B. NTP
- C. SIP
- D. SSH

Correct Answer: C

QUESTION 16

Which of the following standards designates international numbering plans for devices connected to the PSTN?

- A. E.164
- B. ITU-T
- C. IETF
- D. T-161

Correct Answer: A

QUESTION 17

You work as a Network Administrator for McNeil Inc. The company has a TCP/IP-based network.

Performance of the network is slow because of heavy traffic. A hub is used as a central connecting device in the network.

Which of the following devices can be used in place of a hub to control the network traffic efficiently?

- A. Repeater
- B. Router
- C. Switch
- D. Bridge

Correct Answer: C

QUESTION 18

Andrew is working for a television station in North America and South America.

What video standard is more possibly be used with the video stored in the archives of these stations?

- A. PAL
- B. NTSC
- C. SECAM
- D. IEEE 1394

Correct Answer: C

QUESTION 19

Which of the following layers of the OSI model manages communication between communication entities in a network?

- A. Presentation
- B. Network
- C. Transport
- D. Session
- E. Application

Correct Answer: D

QUESTION 20

When a phone is lifted off-hook, it connects the two wires causing an electrical signal to flow from the phone exchange to the phone. What is this electrical signal called?

- A. Off-hook signal
- B. Ground start signal
- C. Loop start signal
- D. On-hook signal

Correct Answer: C

QUESTION 21

Trace analysis tools, management tools, and NBAR are used while implementing QoS policies.

Which of the following tasks is performed by these tools during implementation of QoS policies?

- A. Defining policies
- B. Network audit
- C. Network security configuration
- D. Division of traffic into classes

Correct Answer: B

QUESTION 22

Andrew has received a call from a user on a land line indicating that she cannot place calls with her VoIP softphone, but she can check her e-mail.

What is the first step that Andrew should take to resolve this problem?

- A. Execute ping command on her PC.
- B. Log the problem.
- C. Execute the ipconfig command on her PC.
- D. Instruct her to ping the call manager.

Correct Answer: B

QUESTION 23

Which of the following layers of the OSI model is responsible for converting between ASCII and EBCDIC?

- A. Network Layer
- B. Presentation Layer
- C. Transport Layer
- D. Application Layer

Correct Answer: B

QUESTION 24

Which of the following types of attack can guess a hashed password?

- A. Evasion attack
- B. Denial of Service attack
- C. Teardrop attack
- D. Brute force attack

Correct Answer: D

QUESTION 25

In McNeil Inc. the voicemail system is configured to send email alerts when new voicemails are left for users. Users are complaining that they are only receiving voicemails, but not email alerts.

Which of the following is the most likely cause of this issue?

- A. Port 25 is not functioning on the email server.
- B. Port 53 is not functioning on the email server.
- C. Port 21 is not functioning on the voicemail server.
- D. Port 23 is not functioning on the voicemail server.

Correct Answer: A

QUESTION 26

Which of the following ports must be opened on the firewall for the VPN connection using the Point-to-Point Tunneling Protocol (PPTP)?

- A. TCP port 53
- B. TCP port 443
- C. TCP port 563
- D. TCP port 1723

Correct Answer: D

QUESTION 27

Fill in the blank with the appropriate word.

The _____ is composed of the local loop, the central office, and the SS7 network.

- A. PSTN

Correct Answer: A

QUESTION 28

Which of the following techniques allows multiple computers to share one or more IP addresses?

- A. DHCP
- B. WINS
- C. NAT
- D. DNS

Correct Answer: C

QUESTION 29

Which of the following address translation types only translates one (and only one) IP address to another without using ports?

- A. Static NAT
- B. PAT
- C. Dynamic NAT
- D. NAT

Correct Answer: D

QUESTION 30

You are required to configure an SIP phone. While accomplishing the task, you should also specify the standard codec for toll-grade quality.

Which of the following codecs will you choose to accomplish the task?

- A. G.711

- B. G.729
- C. G.723
- D. G.726

Correct Answer: A

QUESTION 31

Which of the following components of a VoIP network allows users to view video streams and hear audio that originates at a remote user station?

- A. Call agent
- B. MCU
- C. IP Phones
- D. Videoconference station

Correct Answer: D

QUESTION 32

Which of the following are the reasons why DiffServ model is better than the IntServ model for scaling? Each correct answer represents a complete solution. Choose all that apply.

- A. It keeps flow state on each node.
- B. It continuously signals to maintain reservation.
- C. It requires complex configuration to match criteria for each possible flow.
- D. It is a flow based architecture

Correct Answer: ABD

QUESTION 33

Cisco Unified Contact Center is used to distribute calls to groups and agents in organizations. It uses computer telephony integration (CTI). What is the function of CTI?

- A. Popping up a window on the user's computer screen with caller details
- B. Preventing users' computers from unwanted intrusions
- C. Rejecting unwanted calls
- D. Scheduling calls to specific users

Correct Answer: A

QUESTION 34

Which of the following ports are used by H.323 protocol? Each correct answer represents a complete solution. Choose all that apply.

- A. UDP ports 1718 and 1719
- B. TCP ports 110
- C. TCP ports 1720 and 1503
- D. TCP ports 25

Correct Answer: AC

QUESTION 35

Which of the following devices works at the data link layer of the OSI model and is therefore an ideal device for creating a new broadcast domain for a voice device?

- A. Hub
- B. Switch
- C. Brouter

D. Bridge

Correct Answer: B

QUESTION 36

John works as a CCNA Voice Associate; he is working in a company that is facing the problems of Jitter, delay, and packet loss in its VoIP network. John wants to fix all these issues, but he is unable to find the main cause of these problems.

Which of the following is the most likely reason for these issues?

- A. Voice VLAN is not configured.
- B. There is lack of bandwidth.
- C. The company and the service provider are located far from each other.
- D. An audio codec is wrongly configured.

Correct Answer: B

QUESTION 37

Which of the following are the benefits of using Virtual local area network (VLAN) in a company's network? Each correct answer represents a complete solution. Choose all that apply.

- A. It prevents adware and spyware from infecting the network.
- B. It simplifies adding and moving hosts on the network.
- C. It improves security, as broadcasts are limited.
- D. It allows access to network services based on a department, not the physical location.

Correct Answer: BCD

QUESTION 38

Which of the following layers of the OSI model is responsible for converting between ASCII and EBCDIC?

- A. Data link layer
- B. Application layer
- C. Session layer
- D. Presentation layer

Correct Answer: D

QUESTION 39

Which of the following are the actual portions of the telephone number as defined in the North American Numbering Plan? Each correct answer represents a complete solution. Choose all that apply.

- A. Number Plan Area
- B. Caller Identification Code
- C. Custom Rings
- D. Central Office Code

Correct Answer: ABD

QUESTION 40

Which of the following are the key steps that must be taken while planning and implementing QoS policies? Each correct answer represents a part of the solution. Choose three.

- A. Divide traffic into classes.
- B. Identify traffic and its requirement.
- C. Remove unnecessary protocols.
- D. Define policies for each traffic class.

Correct Answer: ABD

QUESTION 41

Henry works as a Technician for BlueWells Inc. One of his customers complains that there is a degraded clocking source in their wide area network.

Which of the following terms will you use to better describe this situation?

- A. Latency
- B. Jitter
- C. Attenuation
- D. Wander

Correct Answer: D

QUESTION 42

Session Border Controllers (SBCs) commonly maintain full session state.

Which of the following functions are offered by a Session Border Controller? Each correct answer represents a complete solution. Choose all that apply.

- A. Regulatory
- B. Availability
- C. Statistics
- D. Connectivity
- E. Quality of service
- F. Security

Correct Answer: ACDEF

QUESTION 43

Which of the following gateways connects an IP telephony network to POTS?

- A. Analog trunk gateway
- B. Digital trunk gateway
- C. Digital station gateway
- D. Analog station gateway

Correct Answer: D

QUESTION 44

Which of the following depicts the ability to smoothly combine e-mail, voice, real-time applications, and Web chat features for a call center representative to use?

- A. Automatic call distributor
- B. Computer telephony integration
- C. Silence suppression
- D. Multi-channel blending

Correct Answer: D

QUESTION 45

Mark works as a Voice technologies associate for PassGuide Inc. His company uses Cisco IP phones for its voice network. He wants to use a protocol that can be used for communication between Cisco UCM and terminal points. He also wants the protocol to provide a facility to make quick changes to it and add needed features and functionality.

Which of the following protocols will he use for the network?

- A. H.323
- B. SCCP
- C. SIP
- D. MGCP

Correct Answer: B

QUESTION 46

Mike works as a Technician for Umbrella Inc. The company is using symmetric Network Address Translation (NAT) in their network. Mike requires a workaround for the SIP devices. Mike is using IP phones from multiple vendors, as well as open source SIP clients.

Which of the following solutions will work to allow the SIP implementation to pass through the NAT solution?

- A. TURN
- B. STUN
- C. 802.1p
- D. UPnP

Correct Answer: A

QUESTION 47

Voice over IP is an application that requires efficient use of bandwidth and reliability. VoIP must not suffer the delays that can be seen at times with Web sites and Web applications.

Which technology can be used to help ensure the efficient transport of VoIP traffic?

- A. RTP
- B. QoS
- C. FTP
- D. DNS

Correct Answer: B

QUESTION 48

Which of the following common IP services allows a customer to connect to the Internet with the help of private IP addressing?

- A. DHCP
- B. NDIS
- C. DNS
- D. NAT

Correct Answer: D

QUESTION 49

You work as a technician for TechPerfect Inc. There are up to 25 telecommuters using VoIP at any given time. You want to ensure that the Web browsing performed by the valid users on your network does not interfere with the required bandwidth for VoIP communications across the Internet.

Which of the following technologies will allow you to ensure that the users can browse the Internet while not allowing these users to thwart the operations of the telecommuters?

- A. Traffic generator
- B. Packet filtering
- C. Traffic policing

D. Traffic shaping

Correct Answer: D

QUESTION 50

Which of the following have the specifications that a VLAN has? Each correct answer represents a complete solution. Choose two.

- A. Broadcast domain
- B. Collision domain
- C. Intranet VPN
- D. IP subnet

Correct Answer: AD

QUESTION 51

Which of the following VTP modes cannot make any changes to the VLAN database?

- A. VTP client
- B. VTP server
- C. VTP transparent
- D. VTP administrator

Correct Answer: A

QUESTION 52

You are working as a Voice Administrator in a company that is facing the problems of jitter, delay, and packet loss in its VoIP network. You want to fix all these issues.

Which of the following is the most likely reason for these issues?

- A. There is lack of bandwidth.
- B. Voice VLAN is not configured.
- C. An audio codec is wrongly configured.
- D. The company and the service provider are located far from each other.

Correct Answer: A

QUESTION 53

Which of the following gateway interfaces connects to the standard station port of a PBX?

- A. MCU
- B. E&M
- C. FXS
- D. FXO

Correct Answer: D

QUESTION 54

Adam works as a Technician for PassGuide Inc. He has been asked to recommend an appropriate network bandwidth for a medium to large business. The company will use it for the IP phones, as well as for the data connection.

Which of the following would Adam recommend?

- A. ISDN BRI
- B. DS1
- C. DS0

D. ISDN PRI

Correct Answer: D

QUESTION 55

Mike works as a Sales Engineer for KBC Inc. He needs a device that will allow him to create a bridge between several users and allow the same video and voice stream to be shared.

Which of the following devices should Mike use to meet this requirement?

- A. Packet filtering firewall
- B. Gatekeeper
- C. Session Border Controller (SBC)
- D. Multipoint Control Unit (MCU)

Correct Answer: D

QUESTION 56

Which of the following is the process of rewriting source and destination addresses of IP packets as they pass through a router or firewall?

- A. SNAT
- B. Supernetting
- C. PAT
- D. NAT

Correct Answer: A

QUESTION 57

Which of the following protocols prevents undesirable loops in a switched network?

- A. IGRP
- B. CDP
- C. VTP
- D. STP

Correct Answer: D

QUESTION 58

Henry works as a Sales Engineer for BlueWells Inc. Sam, a customer, has asked him to create a solution that allows an application to be shared across the internet. The solution should be

extensible and based on industry standards. The solution should not use a proprietary protocol and the application should be delivered to multiple recipients at the same time.

The solution should also be robust, as clients will be using the application from Macintosh, Windows, and Linux systems.

Which of the following protocols should Henry choose to fulfill Sam's requirement?

- A. T.37
- B. T.120
- C. H.323
- D. SIP

Correct Answer: B

QUESTION 59

Which of the following is also known as IP telephony or Internet telephony?

- A. Bluetooth
- B. ISDN
- C. TCP/IP
- D. VoIP

Correct Answer: D

QUESTION 60

Which of the following protocols is used for Voice over IP (VOIP) solutions?

- A. MGCP
- B. RTMP
- C. RTSP
- D. RTP

Correct Answer: A

QUESTION 61

Harry works as a Technician for NetPerfect Inc. He has been assigned a project to connect a North American T-1 trunk to a European E-1 trunk using a conversion device.

Which of the following will result?

- A. No more than 80% of the E-1 trunk can be used.
- B. The connection will fail.
- C. No connection can be made in between the E-1 trunk and T-1 trunk.
- D. No less than 80% of the T-1 trunk can be used.

Correct Answer: A

QUESTION 62

Mark works as a Network Administrator for PassGuide Inc. The company has a Windows-based network. The California branch of PassGuide has been divided into two buildings in the same campus. The company wants to interconnect these two buildings for proper communication among all the departments.

Which of the following network types should Mark use to accomplish the task?

- A. CAN
- B. LAN
- C. MAN
- D. WAN

Correct Answer: A

QUESTION 63

Voice over IP is an application that requires efficient use of bandwidth and reliability. VoIP must not suffer the delays that can be seen at times with Web sites and Web applications.

Which technology can be used to help ensure the efficient transport of VoIP traffic?

- A. RTP
- B. QoS
- C. DNS
- D. RSTP

Correct Answer: B

QUESTION 64

Which of the following is used to maximize the efficient utilization of LAN media?

- A. Bridge
- B. Router
- C. Hub
- D. Switch

Correct Answer: D

QUESTION 65

John works as a Sales Engineer for KBC Inc. He has been assigned a project to install a soft phone on different computers. One of the computer systems on the LAN is experiencing problems in voice quality.

Which of the following actions should John perform to resolve the problem?

- A. Add more system RAM.
- B. Upgrade the computer system.
- C. Upgrade the Network Interface Card (NIC).
- D. Upgrade the network cable to category 6 cabling.

Correct Answer: C

QUESTION 66

You are implementing a Voice over Wireless LAN network.

Which of the following voice-specific requirements will you consider to ensure that voice traffic is received timely or not?

- A. Roaming
- B. Intelligent client
- C. Security
- D. Quality of service

Correct Answer: D

QUESTION 67

You work in a company that accesses the Internet frequently. This makes the company's files susceptible to attacks from unauthorized access. You want to protect your company's network from external attacks.

Which of the following options will help you in achieving your aim?

- A. Gopher
- B. FTP
- C. Firewall
- D. HTTP

Correct Answer: C

QUESTION 68

Which of the following protocols is used by voice terminal to communicate with the VoIP server? Each correct answer represents a complete solution. Choose all that apply.

- A. SIP
- B. SMTP
- C. MGCP
- D. H.323

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