TIA

Exam TT0-101

convergence technologies professional

Version: 5.0

[Total Questions: 130]

Topic break down

Topic	No. of Questions
Topic 0: A	65
Topic 1: B	65

Topic 0, A

A

Question No : 1 - (Topic 0)

An IP workstation can communicate with other devices using their IP addresses, but not by using their host names. Which of the following items is configured incorrectly?

A. DNS server
B. DHCP server
C. Subnet mask
D. Default gateway

Answer: A

Question No : 2 - (Topic 0)

Which standards body is responsible for publishing the Requests For Comments (RFCs) that establish TCP/IP specifications?

A. Internet Engineering Task Force (IETF)
B. International Telecommunication Union (ITU)
C. Institute of Electrical and Electronics Engineers (IEEE)
D. Internet Corporation for Assigned Names and Numbers (ICANN)

Answer: A

Question No : 3 - (Topic 0)

An existing network with 500 users and 25 servers is experiencing excessive broadcast traffic. Which of the following can be added to limit broadcasts?

A. Router
B. Switch
C. Proxy server
D. Traffic shaper

Answer: A

Question No : 4 - (Topic 0)

Which of the following uses in-band signaling?

A. SS7
B. T1
C. PRI
D. Q.931

Answer: B

Question No : 5 - (Topic 0)

Which of the following Quality of Service (QoS) techniques uses the precedence bits in the IP header?

A. RSVP
B. 802.1p
C. IntServ
D. DiffServ

Answer: D

Question No : 6 - (Topic 0)

What are the port ranges for well-known ports in TCP/UDP?

A. 0 through 1023
B. 1024 through 49151
C. 16536 through 32768
D. 49152 through 65535

Answer: A

Question No : 7 - (Topic 0)

Which of the following protocols is responsible for host-to-host communication services?

A. IP
B. TCP
C. ARP
D. SNMP

Answer: B

Question No : 8 - (Topic 0)

What is the function of a hybrid, and what type of analog audio transmission impairment is associated with it?

A. It performs 2-wire/4-wire conversion and causes echo.
B. It performs analog/digital conversion and causes loss.
C. It performs 2-wire/4-wire conversion and causes noise.
D. It performs mu-law/A-law conversion and causes distortion.

Answer: A

Question No : 9 - (Topic 0)

What must be accomplished to draw dial tone on either a loop-start analog line or a ground-start analog trunk?

A. Short tip and ring on a loop-start line, and short tip to ground on a ground-start trunk
B. Short tip and ring on a loop-start line, and short ring to ground on a ground-start trunk
C. Short ring to ground on a loop-start line, and short tip and ring on a ground-start trunk
D. Short ring to ground on a loop-start line, and short tip to ground on a ground-start trunk

Answer: B

Question No : 10 - (Topic 0)

A company has upgraded its network from 10 Mbps to 100 Mbps by replacing its existing 10-Mbps hubs with 100-Mbps hubs. The network is now experiencing performance problems. Which of the following is the most likely cause?

A. 100BaseT networks do not allow hubs, only switches.
B. The network is using a mixture of Cat3 and Cat5 cabling.
C. The servers on the network are using bus-mastering interface cards.
D. The pin-out of the RJ-45 network connector is different for 100BaseT.

Answer: B

Question No : 11 - (Topic 0)

Which of the following International Telecommunication Union (ITU) recommendations defines the standard for store-and-forward fax transmission over IP networks?

A. T.37
B. S.47
C. V.235
D. Q.931

Answer: A

Question No : 12 - (Topic 0)

Why is a Media Access Control (MAC) address needed for a network interface?

A. To match a specific IP network address
B. To provide a serial number for the network interface card
C. To identify a unique destination on a shared access network
D. To identify the manufacturer's warranty date on a network interface card

Answer: C

Question No : 13 - (Topic 0)

Which type of address is 192.0.0.1 if the subnet mask is 255.255.255.0?

A. Host address
B. Network address
C. Local broadcast address
D. Private network address

Answer: A

Question No : 14 - (Topic 0)

A customer has just installed a new hub connected by fiber-optic cable to an existing hub. The devices on the new LAN segment are not communicating with the rest of the network. The technician suspects that the fiber-optic cable may be the cause. Which of the following

tools will verify that the fiber is at fault?

A. Volt-ohm meter
B. Bit-error rate tester
C. Remote monitoring probe
D. Time-Domain Reflectometer

Answer: D

Question No : 15 - (Topic 0)

A customer with 10 locations requests a proposal for a wide area network (WAN) network that will provide a redundant solution if one of the Telco connections fails. Which topology would best fill this request?

A. Star
B. Mesh
C. Ring
D. Point-to-point

Answer: B

Question No : 16 - (Topic 0)

Why does DNS use UDP for name queries and TCP for server-to-server configuration transfers?

A. Because the checksum is optional with TCP
B. Because slower connection-oriented communications occur with UDP
C. Because UDP reduces overhead where reliability is not the primary concern
D. Because UDP allows more reliable connectionless communications on the local network

Answer: C

Question No : 17 - (Topic 0)

A grounded printer is directly connected to a customer's phone system using a properly specified 15-meter shielded RS-232 cable. Which problem might arise?

A. Crosstalk

B. Ground loop
C. Signal attenuation
D. Electromagnetic Interference (EMI)

Answer: B

Question No : 18 - (Topic 0)

A modem is an example of which type of equipment?

A. DCE
B. DTE
C. CSU
D. Codec

Answer: A

Question No : 19 - (Topic 0)

A technician notices errors in a routing table. Which layer of the OSI model is associated with this situation?

A. Network layer
B. Session layer
C. Transport layer
D. Data link layer

Answer: A

Question No : 20 - (Topic 0)

Which Quality of Service (QoS) technology is used by applications to signal QoS requirements to the network?

A. DSCP
B. RSVP
C. 802.1P
D. IP Precedence

Answer: B

Question No : 21 - (Topic 0)

When troubleshooting a network, how can a technician look at the contents of ICMP messages?

A. By using trace route
B. By using SNMP GET PDU
C. By using a cable analyzer
D. By using a protocol analyzer

Answer: D

Question No : 22 - (Topic 0)

What is the importance of subnet masking when routing IP datagrams?

A. It lets a device decide whether the destination is located on the same local network segment.
B. It matches remote IP-addressed interfaces to their hardware addresses beyond the router.
C. It lets network hosts communicate with one another using an alternate link-layer address.
D. It filters out remote networks from the routing table, allowing for efficient route map discovery.

Answer: A

Question No : 23 - (Topic 0)

Which choice lists the devices on which Network Address Translation (NAT) would be implemented?

A. Switches and routers
B. Switches and file servers
C. Routers and firewalls
D. Firewalls and file servers