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The Power of Knowing



Exam : 642-081

Title : Business Ready Teleworker Solution  
Fundamentals (TELWRKR)

Ver : 10-24-07

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**QUESTION 1:**

Due to limitations affecting voice quality, which of the broadband speeds shown is preferred in order to achieve highest voice quality on a converged data and voice teleworker connection?

- A. DSL with 128k uplink /128k downlink
- B. cable with 256k uplink /256k downlink
- C. DSL with 128k uplink /768k downlink
- D. cable with 256k uplink /1.4M downlink

Answer: D

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**QUESTION 2:**

Exhibit:



Which of the following statements is a reason the DHCP server is enabled on the Teleworker home router?

- A. allows for workstations to have network values hard-coded
- B. IP network settings cannot be assigned if the VPN tunnel is down
- C. provides IP network settings to be dynamically assigned
- D. requires HTTP access to initiate assignment

Answer: C

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**QUESTION 3:**

Which integrated security feature is not provided by the Cisco Business Ready Teleworker solution?

- A. Stateful Inspection Firewall
- B. Intrusion Detection System
- C. Spam Filtering
- D. 802.1-based Authentication
- E. Proxy Authentication
- F. URL Filtering

Answer: C

**QUESTION 4:**

Why would the network manager elect to implement a configuration that includes GRE tunnels for a teleworker deployment? Choose two.

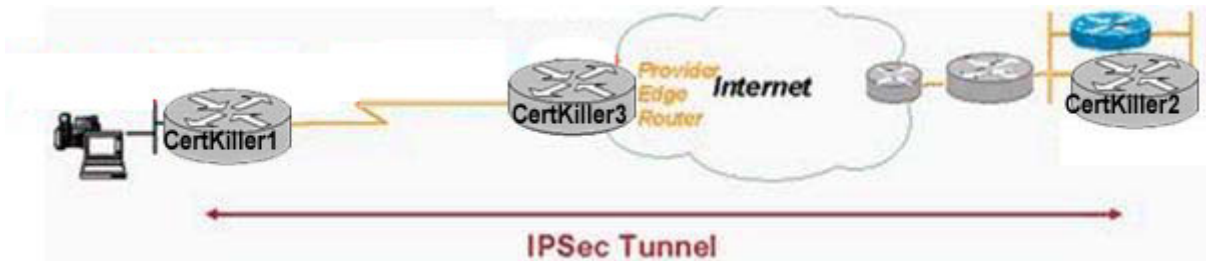
- A. GRE can use transport mode and save up to twenty bytes per packet.
- B. The corporate network includes many discontinuous blocks of IP networks and requires split tunneling.
- C. The corporation's primary application is based on IP multicast.
- D. Without GRE, there is no means to detect a head-end failure.
- E. GRE would enable path MTU discovery.

Answer: B,C

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**QUESTION 5:**

Exhibit:



Assume Router Certkiller 1 is configured for split tunneling. If the Internet Service provider was asked by the customer to provide a guarantee of at least 60 percent of the WAN link between Router Certkiller 1 and Router Certkiller 3 for encrypted traffic, what would be the best means of identifying this traffic to their QoS Service Policy?

- A. permit esp any permit udp any eq 500 any eq 500
- B. permit udp any eq isakmp any eq isakmp
- C. permit ip 10.81.7.0 0.0.0.7 any
- D. tcp any any eq 22

Answer: A

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**QUESTION 6:**

What is the best way to ensure that IKE/ISAKMP packets are not dropped when QoS is enabled on the uplink interface of the Teleworker router?

- A. QoS and IPsec should never be used together.
- B. IKE/ISAKMP packets are DiffSERV codepoint CS6, so the traffic is never dropped.
- C. Source IKE/ISAKMP packets off the loop-back address.
- D. Classify IKE/ISAKMP packets so they are appropriately prioritized.

Answer: D

**QUESTION 7:**

Exhibit:



Given this deployment model and the Enterprise applications, the Teleworker Router provides which functions? Choose two.

- A. Broadband access termination
- B. IPSec tunnel termination
- C. H.323 Signaling termination
- D. Traffic Shaping
- E. Compressed RTP(cRTP)for bandwidth optimization

Answer: B,D

**QUESTION 8:**

Easy VPN operates in two modes. Although Client Mode has advantages, there are environments where it should not be used. Choose two.

- A. Teleworker devices must be accessed from the central site (server, printers).
- B. IP addressing is simplified.
- C. The Teleworker LAN is a transit networking for routing.
- D. An Enterprise application does not function with Network Address Translation.
- E. The Teleworker router is an MPLS PE node.

Answer: A

**QUESTION 9:**

Exhibit:

Group	Percent of Users	Broadband	Uplink	Downlink
A	15%	DSL	128k	128k
B	25%	DSL	128k	768k
C	60%	Cable	256k	1.4M

Certkiller .com indicates their teleworkers plan to use IP phones in their home offices. The IT department has surveyed the planned teleworkers, resulting in the user groupings shown in the exhibit. To provide the highest voice quality, the best recommendations to this customer are \_\_\_\_\_. Choose two.

- A. Deploy all three groups with a QoS service policy, choosing the parameters for Traffic

Shaping based on the average uplink speed across the three groups.

- B. Teleworkers in Groups A and B should inquire with their DSL providers for subscriptions with higher uplink bandwidths.
- C. Teleworkers in Group C should change their subscriptions to DSL for deployment consistency.
- D. Teleworkers in Group A should upgrade their subscription to obtain static IP addresses
- E. Teleworkers in Group A should inquire with their DSL providers for subscriptions with higher downlink bandwidths.

Answer: B,E

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**QUESTION 10:**

When should you enable Network Address Translation Transparency (NAT-T) on the Teleworker?

- A. when a router between the Teleworker router and the head-end VPN router is doing NAT/pNAT and does not support IPSec pass-through
- B. when the Teleworker router itself is doing NAT/pNAT
- C. always
- D. never

Answer: A

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**QUESTION 11:**

Choose the true statement regarding QoS pre-classify.

- A. QoS pre-classify permits making QoS decisions based on elements from the unencrypted IP packet.
- B. QoS pre-classify is required when encrypting voice.
- C. QoS pre-classify is an advantage to Service Providers transporting encrypted packets.
- D. QoS pre-classify is not designed for IPSec/GRE configurations.

Answer: A

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**QUESTION 12:**

The LAN-side of the Teleworker router is assigned private IP address space (RFC1918), and the VPN topology is IPSec-only (no GRE protocol). When is it required to configure NAT/pNAT on the Teleworker router?

- A. when all access to the Internet is through the IPSec tunnel
- B. when there is direct Internet access via split-tunneling
- C. when there is no Internet access configured through the Teleworker router

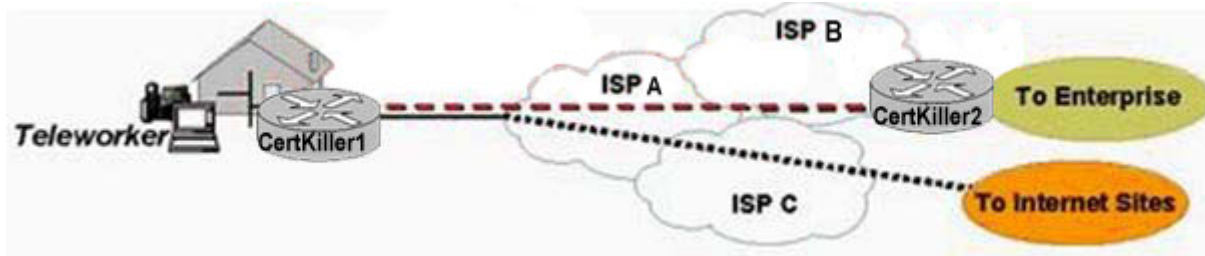
D. whenever you have IOS-Firewall (CBAC) configured

Answer: B

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**QUESTION 13:**

Exhibit:



Asymmetric broadband service with significantly greater downstream bandwidth is recommended for Teleworker deployment. Which reason is the most accurate?

- A. Most ISPs do not provide QoS for residential broadband. Asymmetric bandwidth reduces the chance of downstream congestion when traffic from Internet sites competes for bandwidth with IP voice traffic.
- B. Additional downstream bandwidth compensates for insufficient upstream bandwidth. The aggregate bandwidth provides the same result.
- C. The additional bandwidth is needed to access more than one site. Most HTTP traffic is downstream.
- D. The additional downstream bandwidth allows the Enterprise VPN device to send the IP voice packets much faster, allowing them to reach the Teleworker network with less latency.

Answer: A

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**QUESTION 14:**

Select a key benefit of DSL.

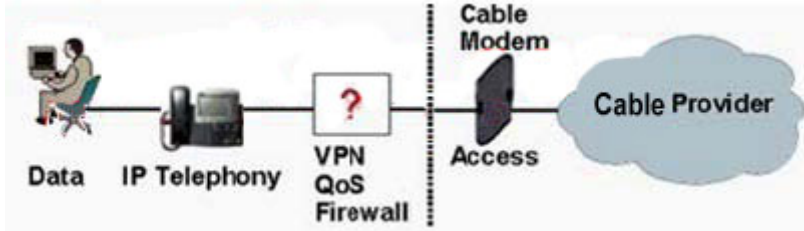
- A. TCP packet sizes can be optimized by the router so there is no IPSec or AAL5 padding.
- B. The local loop is a dedicated connection for a single subscriber to the DSLAM.
- C. Access to the WAN media uses a poll/response mechanism so no two subscribers transmit at the same time.
- D. There are no distance requirements from the Central Office (CO).

Answer: B

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**QUESTION 15:**

Exhibit:



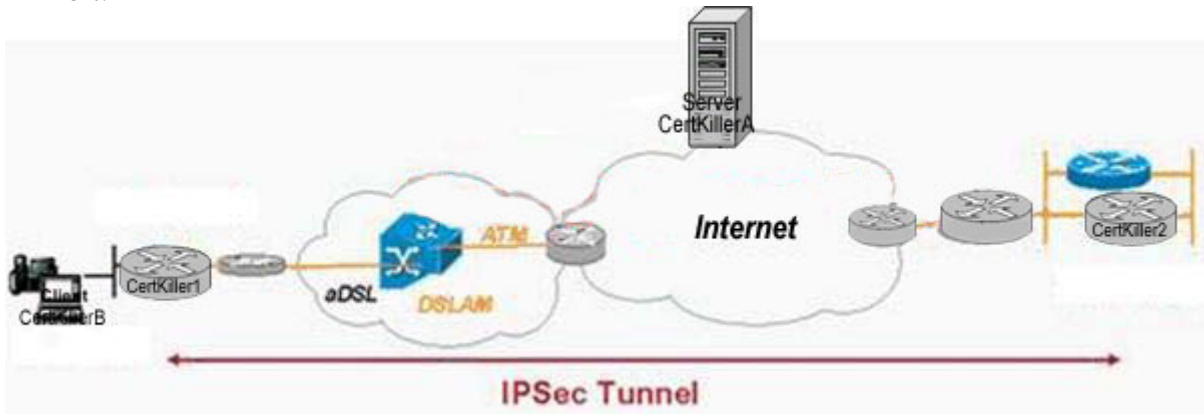
Given the CPE deployment model, the Enterprise applications shown, and the functions being provided as designated, the appropriate product choice is \_\_\_\_\_.

- A. Cisco PIX 501 Firewall
- B. Cisco 831 router
- C. Cisco 837 router
- D. Cisco VPN3002 Hardware Client
- E. Cisco ubr925 cable modem
- F. Cisco SW VPN Client

Answer: B

**QUESTION 16:**

Exhibit:



Assume Router Certkiller 1 is configured for split tunneling. For Host Certkiller B to download a file from Server Certkiller A, what would best describe the path the packets would traverse from the server to the host?

- A. Server Certkiller A to Router Certkiller 2, unencrypted to Router Certkiller 1 to Client Certkiller B.
- B. Server Certkiller A to Router Certkiller 2, encrypted to Router Certkiller 1 to Client Certkiller B.
- C. The packets are encrypted between Server Certkiller A and Router Certkiller 1.
- D. Unencrypted from Server Certkiller A through Router Certkiller 1 to Client Certkiller B.
- E. Client Certkiller B could not download a file from Server Certkiller A.

Answer: D

**QUESTION 17:**

Your Service Provider does not support Link Fragmentation and Interleave, but upstream serialization delay on your broadband link is affecting voice quality. Which two mitigation strategies are viable? Choose two.

- A. Upgrade your residential broadband service to at least 768kbps uplink.
- B. Switch your home router to use PPP encapsulation.
- C. Use the ip tcp adjust-mss interface command.
- D. Employ QoS techniques to drop large data packets.
- E. Use traffic shaping to interrupt large data packets.

Answer: A,C

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**QUESTION 18:**

Authentication for user data traffic is important, but so is authentication for IP voice traffic. The Cisco 830 802.1 feature provides an easier method for allowing IP voice traffic through the VPN, because it \_\_\_\_\_. Choose two.

- A. requires access lists to identify the voice traffic
- B. can allow traffic from a device without 802.1X authentication, by MAC address
- C. can allow traffic from Cisco IP phones by listening to their CDP advertisements
- D. allows all packets marked with a ToS of 5 to bypass authentication
- E. allows all IP voice packets to bypass authentication via stateful inspection

Answer: B,C

---

**QUESTION 19:**

Exhibit:

```
ip dhcp pool CPE-CLIENT
import all
network 10.112.12.0 255.255.255.0
default-router 10.112.12.1
option 150 ip 10.59.138.51
```

A Teleworker router is deployed behind a broadband Cable service. If the Teleworker router has the configuration shown, what will be the DNS server selected for DHCP clients on the LAN-side interface?

- A. DHCP clients will automatically default to the DNS root servers for all DNS requests in the IP stacks locally.
- B. DHCP clients will use the IP set in the option 150 command.
- C. DHCP clients will use the DNS entry assigned by the ISP.
- D. DHCP clients will have no DNS server set in the IP stack.

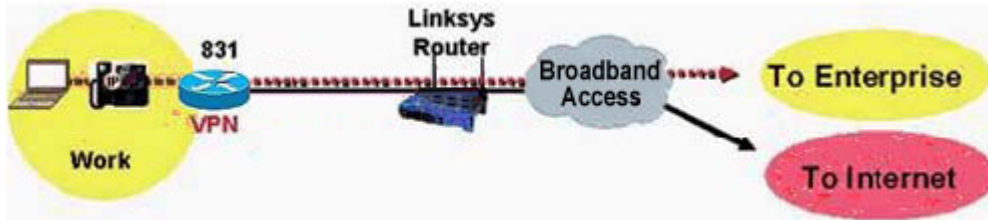


Answer: C

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**QUESTION 20:**

Exhibit:



The Linksys router in the diagram is performing pNAT (port network address translation). What hash algorithm should you choose and why?

- A. Use hash MD5 to ensure that IKE works through NAT.
- B. Use ah-sha-hmac, as it does not check the integrity of the IP header. The IP header will change due to NAT.
- C. Use 3DES, as it will encrypt the IPSec header IP addresses and bypass addressing issues.
- D. Use esp-sha-hmac, as it does not check the integrity of the IP header. The IP header will change due to NAT.

Answer: C

---

**QUESTION 21:**

An important limitation of the Cisco Business Ready Teleworker solution is \_\_\_\_\_.

- A. IP phone extensions for teleworkers must be chosen carefully so not to duplicate campus phone extensions.
- B. More security exposure exists due to lack of support for Intrusion Detection System and URL filtering for teleworker originated traffic.
- C. Compressed RTP and IPSec are not compatible and result in no bandwidth savings.
- D. Broadband modems must support Quality of Service for adequate voice quality.

Answer: C

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**QUESTION 22:**

What method in a Cisco IOS router can confirm that packets marked for a particular QoS marking are being matched?

- A. Issue a show policy-map interface command.
- B. Assuming Netflow is enabled, issue a show ip cache verbose flow command.
- C. Issue a show crypto ipsec session command.

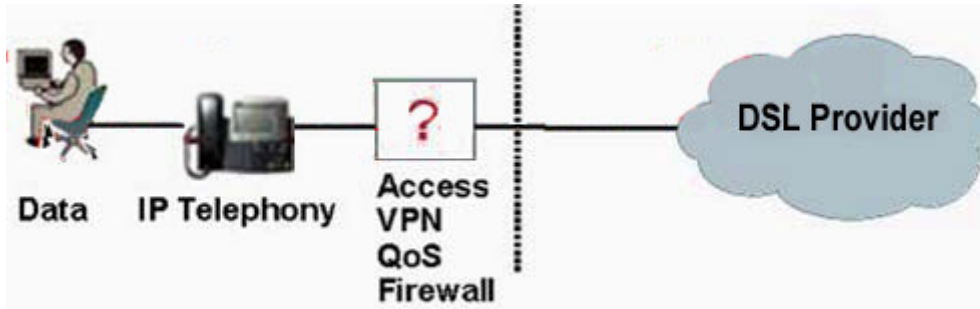
D. Issue a debug qos set command and a terminal monitor command.

Answer: A

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**QUESTION 23:**

Exhibit:



Given the CPE deployment model, the Enterprise applications shown, and the functions being provided as designated, the appropriate product choice is \_\_\_\_\_.

- A. Cisco PIX 501 Firewall
- B. Cisco 831 router
- C. Cisco 837 router
- D. Cisco VPN3002 Hardware Client
- E. Cisco SW VPN Client

Answer: C

---

**QUESTION 24:**

When implementing 802.1X on Teleworker routers and using separate DHCP address pools for Teleworker and Home-user devices, traffic between devices can be restricted. How can you best accomplish this?

- A. Access Lists between the inside interface and loopback interface
- B. Context Based Access Control
- C. Dynamic Host Configuration Protocol
- D. Network Address translation

Answer: A

---

**QUESTION 25:**

For best packet switching performance with crypto, what is the recommend packet switching path in a Cisco Teleworker Router?

- A. Process Switching
- B. Silicon Switching

- C. Cisco Express Forwarding (CEF) Switching
- D. Autonomous Switching

Answer: C

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**QUESTION 26:**

What is the minimum recommended uplink/downlink speed to support a single encrypted IP voice Teleworker call?

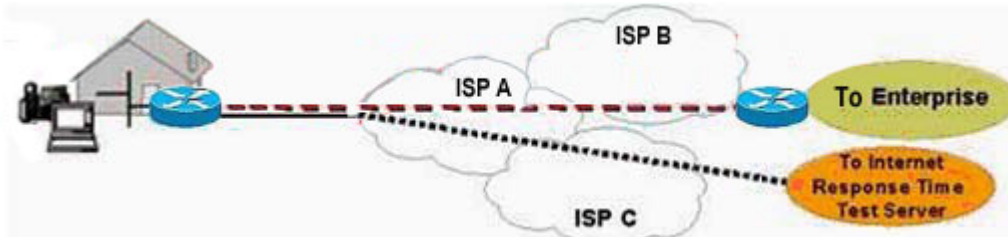
- A. 256kbps / 1024kbps
- B. 256kbps / 1544kbps
- C. 160kbps / 768kbps
- D. 384kbps / 384kbps
- E. 128kbps / 512kbps

Answer: C

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**QUESTION 27:**

Exhibit:



Available public Internet sites are sometimes used for estimating performance. Which statement regarding their use for estimating VPN performance is correct?

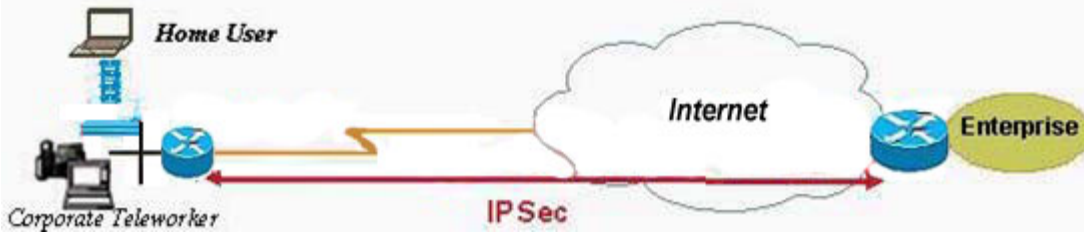
- A. Throughput results are valid as a value from the Teleworker's home to the corporate site, regardless of the location of the public test server.
- B. Throughput results may not be valid due to the public server's location on the Internet and fluctuations based on the use of the public server.
- C. Throughput values are not affected by the choice of split tunneling or Internet access through the VPN.
- D. Throughput results are unrelated to the Teleworker PC configuration or current PC use.

Answer: B

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**QUESTION 28:**

Exhibit:



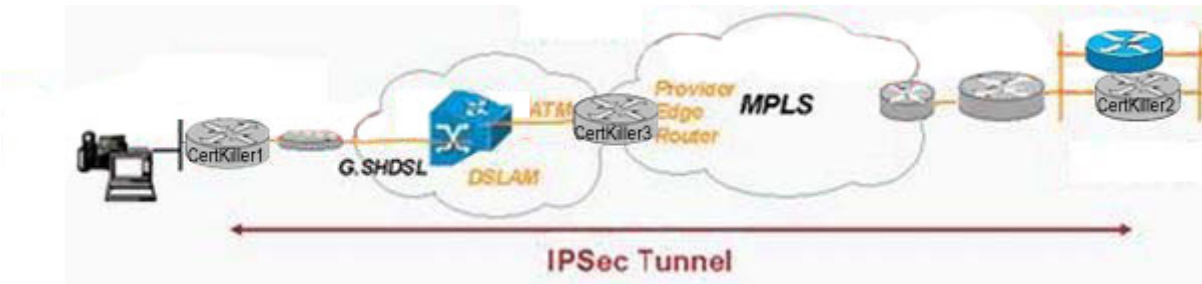
An enterprise's security policy disallows the use of wireless on a Teleworker PC. Choose the most appropriate 830 security feature to use to enforce the security policy.

- A. 802.1X authentication
- B. authentication proxy
- C. Context Based Access Control
- D. Lock and Key authentication

Answer: A

### QUESTION 29:

Exhibit:



With an IPsec tunnel established between remote Router A and head-end router B, how can the Service Provider Edge Router identify Voice over IP packets flowing through the IPsec tunnel from a Cisco 7960 IP phone?

- A. UDP ports 16384 through 32727
- B. ESP packets less than 113 bytes
- C. DiffServ codepoint EF Expedited Forwarding
- D. RTP ports 6970 through 6999

Answer: C

### QUESTION 30:

What are the DSL-specific factors that require additional bandwidth when supporting Voice-over-IP over an IPsec VPN? Choose three.

- A. A voice packet is sent via multiple fixed-length cells; a portion of the last cell is padding, requiring more bandwidth.
- B. ADSL typically uses PPPoE encapsulation, which adds additional overhead to each

voice packet.

C. A voice packet is sent via multiple fixed-length cells; each cell has about 10% Layer-2 header overhead.

D. IPSec requires additional overhead for the header and hash.

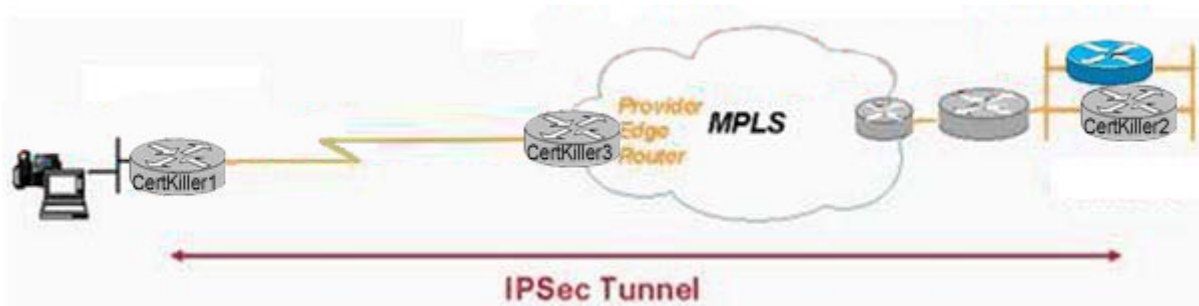
E. ADSL carrier band requires additional bits to be carried over the wire to the DSL Access Concentrator.

Answer: A,B,C

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**QUESTION 31:**

Exhibit:



With an IPsec tunnel established between remote Router A and head-end router B, with Compressed Real-Time Protocol (cRTP) configured on the serial interface of Router A, what impact will the cRTP configuration have on the Voice over IP packets flowing through the IPsec tunnel from a Cisco 7960 IP phone?

- A. Twenty bytes of header will be replaced with five bytes.
- B. If the IPsec transform set includes Authentication Header, the receiving IPsec peer will discard the packets.
- C. The IPsec packets will be dropped by Router A's compression logic.
- D. The voice packets will not be compressed.

Answer: D

---

**QUESTION 32:**

Certkiller .com indicates they run a mission-critical application which marks its packets best-effort (DSCP=0). How can you guarantee delivery of this traffic?

- A. Remark the traffic on ingress and prioritize on egress.
- B. Enable CEF and Netflow.
- C. Configure the MS-Windows QoS Scheduler to prioritize this traffic.
- D. Enable WRED.

Answer: A

**QUESTION 33:**

When is it appropriate to enable Link Fragmentation and Interleaving (LFI) on DSL connections for Teleworkers? Choose three.

- A. uplink speed less than 768kbps
- B. supporting Voice-over-IP
- C. using PPPoE encapsulation
- D. using PPPoA encapsulation
- E. uplink speed greater than 768kbps

Answer: A,B,D

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**QUESTION 34:**

Which is not a reason that Internet Service Providers prefer to use PPP over Ethernet (PPoE)?

- A. access control and billing can be done on a per-user, rather than a per-site basis
- B. supports Link Fragmentation and Interleaving
- C. provides the ability to connect a network of hosts over a simple bridging access device
- D. provides a consistent means of authenticating users (RADIUS for example)

Answer: B

---

**QUESTION 35:**

Exhibit:

```
ip dhcp excluded-address 10.112.12.1 10.112.12.59
ip dhcp excluded-address 10.112.12.70 10.112.12.254
ip dhcp pool CPE-CLIENT
network 10.112.12.0 255.255.255.0
default-router 10.112.12.1
```

Given the DHCP pool configuration on a Teleworker router, what is the first IP address served to the first DHCP client on the LAN-side of the Teleworker router?

- A. 10.112.12.1
- B. 10.112.12.2
- C. 10.112.12.60
- D. No ip address will be served over DHCP to a DHCP client on the LAN-side of the router A.

Answer: C

---

**QUESTION 36:**

What are disadvantages of Network Address Translation Transparency? Choose two.

- A. There is no disadvantage.
- B. It will add 16 bytes per packet of overhead(8 bytes UDP header, and 8 bytes of NON-IKE Marker).
- C. It will add 36 bytes per packet of overhead (20 bytes of IP header, 8 bytes of UDP header, 8 bytes of NON-IKE Marker).
- D. It will require that both crypto peers support this feature in the IOS version. Both crypto peers must also have this feature enabled.

Answer: B,D

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**QUESTION 37:**

Exhibit:



Easy VPN operates in two modes. The exhibit represents network extension mode. Choose the best reason for using this mode.

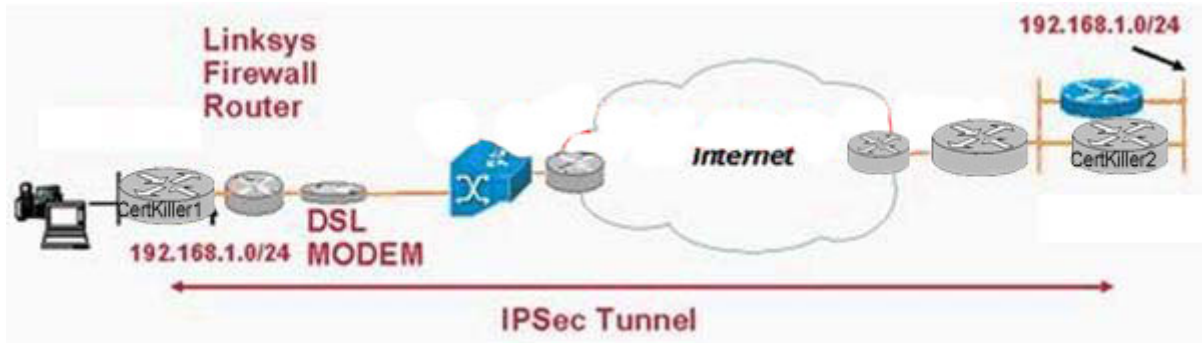
- A. Teleworker devices must be accessed from the central site (server, printers).
- B. IP addressing is simplified.
- C. The Teleworker LAN is a transit networking for routing.
- D. The Teleworker router is an MPLS PE node.

Answer: A

---

**QUESTION 38:**

Exhibit:



Which statement is true regarding the topology?

- A. An IPsec tunnel cannot be established between Router A and Router B.

- B. The Linksys Firewall router does not support PPPoE.
- C. Destination addresses defined in RFC 1918 are not supported within an IPsec tunnel
- D. The phone and PC behind Router A will not be able to connect to a host on 192.168.1.0/24.

Answer: D

---

**QUESTION 39:**

Exhibit:

```
interface ATM0/35 point-to-point
description Outside
bandwidth 256
pvc dsl 0/35
vbr-nrt 256 256
tx-ring-limit 3
pppoe max-sessions 5
service-policy output llq-branch
pppoe-client dial-pool-number 1
```

Given this DSL router's sub-interface configuration, select the two true statements. Assume the interface is UP/UP. Choose two.

- A. The interface must be configured as point-to-multipoint.
- B. The sustained cell rate and the burst rate are equal.
- C. The router's configuration will also include a Dialer interface.
- D. The configuration must also include a sub-interface with a VPI/VCI of 8/35.

Answer: B,C

---

**QUESTION 40:**

Certkiller .com wants to TFTP a new image from the corporate network to Flash on the Teleworker router through the IPsec tunnel. How should you configure the Teleworker router?

- A. No additional steps are required.
- B. Add the appropriate source-interface command.
- C. The router cannot access a server in the Enterprise Campus network.
- D. The Teleworker Router does not have any client applications; therefore this type of request is not possible.

Answer: B

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**QUESTION 41:**

Exhibit:





Given this deployment model, what capability must the Broadband Router provide for the Enterprise applications to function properly?

- A. IPSec tunnel termination
- B. DHCP
- C. hardware-accelerated IPSec encryption
- D. Traffic Shaping
- E. Split-tunneling

Answer: D

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**QUESTION 42:**

In a Teleworker deployment with a single IP phone connected to a Cisco 831 router, select the true statement regarding Call Admission Control.

- A. RSVP is a required configuration to support conference calls without voice packet loss.
- B. The QoS configuration on the 831 router must always provision sufficient bandwidth for two RTP streams.
- C. Call admission control is an issue only when using hardware DSP resources.
- D. When using the conference call features on a 7960 IP phone, only one RTP stream is present regardless of how many extensions are on the conference.

Answer: D

---

**QUESTION 43:**

An Enterprise customer wants to reduce the configuration effort for their Teleworker router deployments. What is one way to simplify the IPSec-related configuration in the remote routers?

- A. CiscoWorks VPN Manager
- B. deploy Linksys routers with menu-driven configuration
- C. Easy VPN client mode
- D. disable 802.1x and Auth Proxy on the Teleworker router

Answer: C

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**QUESTION 44:**

Exhibit:



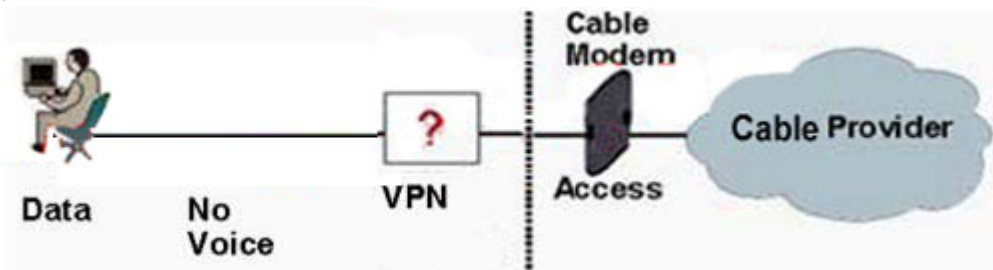
Given the topology shown, what are two ways to allow the VPN to operate? Choose two.

- A. Use route maps on the 831.
- B. The 831 has IPsec NAT-Transparency (NAT-T) enabled.
- C. Disallow split tunneling on the 831.
- D. IPsec pass-through must be enabled on the Linksys.
- E. Use the port-mapping feature on the residential router.

Answer: B,D

#### QUESTION 45:

Exhibit:



Given the CPE deployment model, the Enterprise applications shown, and the functions being provided as designated, the appropriate product choice is \_\_\_\_\_. Choose three.

- A. Cisco PIX 501 Firewall
- B. Cisco 831 router
- C. Cisco 837 router
- D. Cisco VPN3002 Hardware Client
- E. Cisco ubr925 cable modem
- F. Cisco SW VPN Client

Answer: B

#### QUESTION 46:

Exhibit:

```
CertKiller1#show ip cache verb flow | begin SrcIF
SrcIF          SrcIPAddress      DestIf          DestIPAddress   Pr  TOS  Flgs  Pkts
Port Msk AS    Port Msk AS      NextHop         B/Fk  Active
Fa0/0          10.82.2.4         Fa0/0           10.102.2.142   11  00  10    746
```

Given the output, choose the true statement.

- A. The ToS value is set as best effort (DSCP=0).
- B. The flow displayed is using a G.729 CODEC.
- C. The flow displayed is using a G.711 CODEC.
- D. The IP Precedence value of the packets is 11.

Answer: C

**QUESTION 47:**

**DRAG DROP**

As a Certkiller .com technician you are required to match the DSL technology to the recommendation for Teleworker- Match the appropriate Technology with the corresponding recommendation.

**DSL technology, select from these**

G.SHDSL

IDSL

ADSL

SDSL

**Recommendation**

**DSL Technology, place here**

Not recommended due to low speed (144kbps in both directions)

Place here

Recommended, assumes upload speed is at least 150kbps (download link always Lighter)

Place here

Recommended, symmetrical service usually used for business DSL as a T1 replacement

Place here

Proprietary symmetrical rate technology

Place here

Answer:

**DSL technology, select from these**

Recommendation	DSL Technology, place here
Not recommended due to low speed (144kbps in both directions)	ADSL
Recommended, assumes upload speed is at least 160kbps (download link always Lighter)	IDSL
Recommended, symmetrical service usually used for business DSL as a T1 replacement	G.SHDSL
Proprietary symmetrical rate technology	SDSL

---

**QUESTION 48:**

It is considered a best practice to use the Dead Peer Detection (DPD) feature with which VPN topologies?

- A. IPSec
- B. IPSec with GRE
- C. DMVPN
- D. EZVPN
- E. all of the choices

Answer: E

---

**QUESTION 49:**

A corporation is not concerned about wireless use by Teleworkers. Authentication for any application first requires access via a web browser to a protected site. Given these requirements, choose the appropriate security feature to use to enforce the security policy.

- A. Authentication Proxy
- B. 802.1X
- C. Context-Based Access Control
- D. Intrusion Detection System
- E. Stateful firewall

Answer: A

---

**QUESTION 50:**

Choose the false statement concerning the use of CiscoWorks Internetwork Performance Monitor (IPM) in a Teleworker deployment.

- A. IPM should not be run on a production network.
- B. IPM helps verify if a Service Provider is meeting the Service Level Agreement.
- C. IPM contains a database that can store data on latency, jitter, and drops of voice packets over a period of weeks or months.
- D. The QoS service policy should contain an allocation of sufficient bandwidth in the priority queue (LLQ) for both the SAA probe simulating a voice call and the voice call. If not, voice quality will suffer.

Answer: A

---

**QUESTION 51:**

Exhibit:



Which of the following IOS DHCP configuration statements is required so that a Cisco skinny-based IP phone can connect with CallManager?

- A. ip dhcp pool Client
- B. network 10.1.1.0 255.255.255.240
- C. default-router 10.1.1.1
- D. dns-server 10.2.2.2
- E. domain-name cisco.com
- F. option 150 ip 10.3.3.3

Answer: F

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**QUESTION 52:**

What is a key characteristic of the Cisco Business Ready Teleworker solution which is different from traditional software-client based Teleworker solutions? Choose two.

- A. all traffic is encrypted using IPsec and the Triple-DES algorithm
- B. full support for all Enterprise applications, including data, voice, and video
- C. thousands of Teleworker VPN tunnels can be aggregated to a headquarters location
- D. the VPN tunnel is an always on site-to-site VPN connection

- E. portability for use while traveling
- F. used with broadband Cable/DSL subscriptions

Answer: B,D

---

**QUESTION 53:**

Exhibit:

```
crypto isakmp keepalive 10
|
crypto ipsec transform-set FOO esp-3des
esp-sha-hmac
|
crypto map test 1 ipsec-isakmp
set peer x.x.x.x
set peer x.y.y.y
set transform-set FOO
match address 101
qos pre-classify
```

Given the configuration on a Teleworker router, and knowing it was in the process of being booted, what statement would best describe the order in which the head-end peers would be selected?

- A. The remote router would load-balance between peer x.x.x.x and x.y.y.y.
- B. Peer x.x.x.x would be attempted first.
- C. A round-robin selection is implemented.
- D. If the first peer in the list does not respond in 50 milliseconds, the second peer would be selected
- E. There is no pre-determined order of selection.

Answer: B

---

**QUESTION 54:**

Due to the relationship of IPSec encryption and VoIP bandwidth, which recommendation would conserve bandwidth for Teleworkers with IP phones?

- A. Select the G.711 CODEC.
- B. Configure encryption to use DES instead of Triple-DES.
- C. Select the G.729a CODEC.
- D. Enable cRTP for the Teleworker-originated Voice media streams.
- E. Apply a QoS Service Policy to the downlink of the broadband connection.

Answer: C

---

**QUESTION 55:**

For Ethernet-to-Ethernet routers, such as the Cisco 831 behind a cable modem or DSL bridge, a traffic shaper is configured. This is required since the output 10-Mbps interface will not be congested. Which two statements are true? Choose two.

- A. The parent policy-map shapes and the child policy-map queues.
- B. The mean-rate and burst-size must always be the same value.
- C. This will not work without a Dialer interface configured.
- D. The shaper provides congestion feedback.

Answer: A,D

---

### QUESTION 56:

Exhibit:

```
!
interface Ethernet0
description Inside
...
ip tcp adjust-mss 542
!
interface Ethernet1
description Outside
ip address dhcp
ip tcp adjust-mss 542
```

Given the interface configuration on a DSL connection with PPPoE, select the true statement.

- A. The router is limiting the size of TCP and UDP packets.
- B. The configuration implements an effective Layer-2 fragmentation technique.
- C. The value of 542 is recommended in several RFCs.
- D. There is another upstream router terminating the PPPoE session.

Answer: D

---

### QUESTION 57:

Context-Based Access Control (CBAC) is the algorithm of the Cisco IOS firewall feature. How does CBAC improve Teleworker security?

- A. Inbound packets are permitted only if they are part of a legitimate data flow initiated by a device on the Teleworker home network.
- B. All packets are checked for integrity by analyzing their checksum.
- C. Every packet is checked to see if it was sent through the VPN tunnel.
- D. Every packet is inspected to see if any disallowed URLs are included. URLs are forwarded to the security cache engine for authorization.

Answer: A

---

**QUESTION 58:**

Why might the following configuration command be entered into a router's configuration? no crypto ipsec nat-transparency udp-encapsulation

- A. You wish to disable nat-transparency and use IPSec passthru.
- B. It is incompatible with QoS pre-classify.
- C. It disables anti-replay on the receiving router.
- D. WRED cannot randomly drop UDP packets, so UDP encapsulation should be avoided.

Answer: A

---

**QUESTION 59:**

Which can be used to check if a packet's ToS/IP Precedence/DSCP value is being marked correctly, from a specific host/flow? Choose two.

- A. Use Netflow on the Teleworker router.
- B. Use a Protocol Analyzer on the same LAN as the client.
- C. Use a Protocol Analyzer between the Teleworker router and broadband modem.
- D. Use show policy-map interface.

Answer: A,B

---

**QUESTION 60:**

What is not a difference between VPN tunnel authentication and per-user authentication?

- A. VPN tunnel authentication is part of the IKE specification.
- B. VPN tunnel authentication does not control which end user can use the IPSec SA (VPN tunnel).
- C. User authentication is used to control access for a specific user ID, and can be used with or without a VPN tunnel for network access authorization.
- D. 802.1X with EAP-TLS (X.509 certificates) can be used to authenticate an IPSec tunnel.

Answer: D

---

**QUESTION 61:**

Certkiller .com wants to deploy the Cisco Business Ready Teleworker solution, but is currently using a traditional (non-IP) PBX for voice services. What would you recommend to this customer?

- A. Deployment of Business Ready Teleworker with VoIP is not recommended.
- B. The customer's existing PBX must first be replaced with Cisco IP Telephony solution.



- C. Business Ready Teleworker and Cisco IP Telephony can be deployed in parallel to the existing PBX, integrating the two with trunking.
- D. Deployment is recommended only for full-time Teleworkers who have no other corporate phone.

Answer: C

---

**QUESTION 62:**

When is an IPSec SA built on the Teleworker Router?

- A. when the router is booted up
- B. when the router administratively does a "no shutdown" on the IPSec SA
- C. when traffic matches a line of the access-list tied into the crypto-map in the router configuration, and that particular IPSec SA is not already up
- D. when the ISAKMP SA completes negotiation of all IPSec SAs (one per access-list line in the crypto ACL), it will be brought up immediately

Answer: C

---

**QUESTION 63:**

What characteristics make ADSL the likely choice among DSL technologies for Teleworker? Choose two.

- A. most widely deployed by service providers
- B. provides asymmetrical bandwidth, including high speed downlink
- C. data rate is affected by distance to the Central Office
- D. provides the furthest reach at T1 speeds
- E. supports connection of two routers without the use of a DSL access concentrator

Answer: D,E

---

**QUESTION 64:**

When IP Telephony is deployed for Teleworkers using the Cisco Business Ready Teleworker solution, which statements are true? Choose two.

- A. There is lower bandwidth consumption for VoIP media streams.
- B. Teleworkers can have the same extensions and inward-dialing numbers at their office desks and home offices.
- C. Personal calls are routed directly through the residential PSTN line.
- D. Teleworkers can have different extensions at their office desks and home offices.
- E. There is less burden on Cisco CallManager for signaling traffic.
- F. Incoming calls are first routed to the office desks, then to the home offices.

Answer: B,D

---

**QUESTION 65:**

An Enterprise decides to implement Authentication Proxy for per-user authentication for home offices. Each home office also supports an IP Phone. What should you do?

- A. Configure Access Control Lists to ensure Voice over IP traffic is checked by Auth Proxy.
- B. Configure pNAT to ensure Voice over IP packets are properly translated.
- C. Configure IOS firewall to permit RTP port numbers through the firewall via VPN.
- D. Configure Access Control Lists to allow Voice over IP traffic to bypass Auth Proxy checking.

Answer: D

---

**QUESTION 66:**

An Enterprise customer is concerned about the effort involved in allocating remote network addressing at the Teleworker location. What should you recommend to the customer?

- A. CiscoWorks VPN Manager
- B. Easy VPN client mode
- C. deploy Linksys routers with menu driven configuration
- D. disable 802.1x and Auth Proxy on the Teleworker router

Answer: B

---

**QUESTION 67:**

Exhibit:

```
CertKiller1 #show policy-map int e 0/0
Ethernet0/0

Service-policy output: Shaper

Class-map. class-default (match-any)
 738380 packets, 226313929 bytes
 30 second offered rate 0 bps, drop rate 0 bps
Match: any
Traffic Shaping
  Target/Average Byte Sustain Excess Interval Increment
  Rate      Limit bits/int bits/int (ms)  (bytes)
 182400/182400 456 1824 1824 10 228

Adapt Queue  Packets Bytes  Packets Bytes  Shaping
Active Depth          Delayed Delayed Active
- 0 730821 262958000 276638 157154622 no
```

Select the true statement.

Exhibit: 642.081.67.jpg

- A. The interval value should be configured at 150ms since that is target latency budget.
- B. This router never delayed any packets.
- C. This router is provisioned for a 256K DSL link.
- D. The inside LAN interface is Ethernet 0/0.

Answer: C

---

**QUESTION 68:**

Exhibit:

```
ip dhcp pool CPE-CLIENT
network 10.112.12.0 255.255.255.0
default-router 10.112.12.1
```

Given the DHCP pool configuration shown on Router A, the Cisco IP phone will not boot up in the Teleworker location. What is missing from the Teleworker DHCP pool configuration?

- A. The DHCP pool needs to have an import all statement.
- B. The DHCP pool is missing an option 150 ip 10.59.138.1 statement.
- C. The DHCP pool is missing an option 139 ip 10.59.138.1 statement
- D. The DHCP pool is missing a dns-server 10.59.138.1 statement.

Answer: B

---

**QUESTION 69:**

Which statement regarding 802.1X is true?

**642-081**

- A. 802.1X is simple to implement on any workstation
- B. 802.1X requires access-lists to allow IP voice traffic across.
- C. Authentication is initiated when the workstation connects to an Ethernet port.
- D. 802.1X requires HTTP access to initiate authentication.

Answer: A