1   Which two statements about DSL are true? (Choose two.)
- ☐ users are on a shared medium
- ☐ uses RF signal transmission
- ☐ local loop can be up to 3.5 miles (5.5km)
- ☐ physical and data link layers are defined by DOCSIS
- ☐ user connections are aggregated at a DSLAM located at the CO

2   What are the three main functions of a secure VPN? (Choose three.)
- ☐ accounting
- ☐ authentication
- ☐ authorization
- ☐ data availability
- ☐ data confidentiality
- ☐ data integrity

3
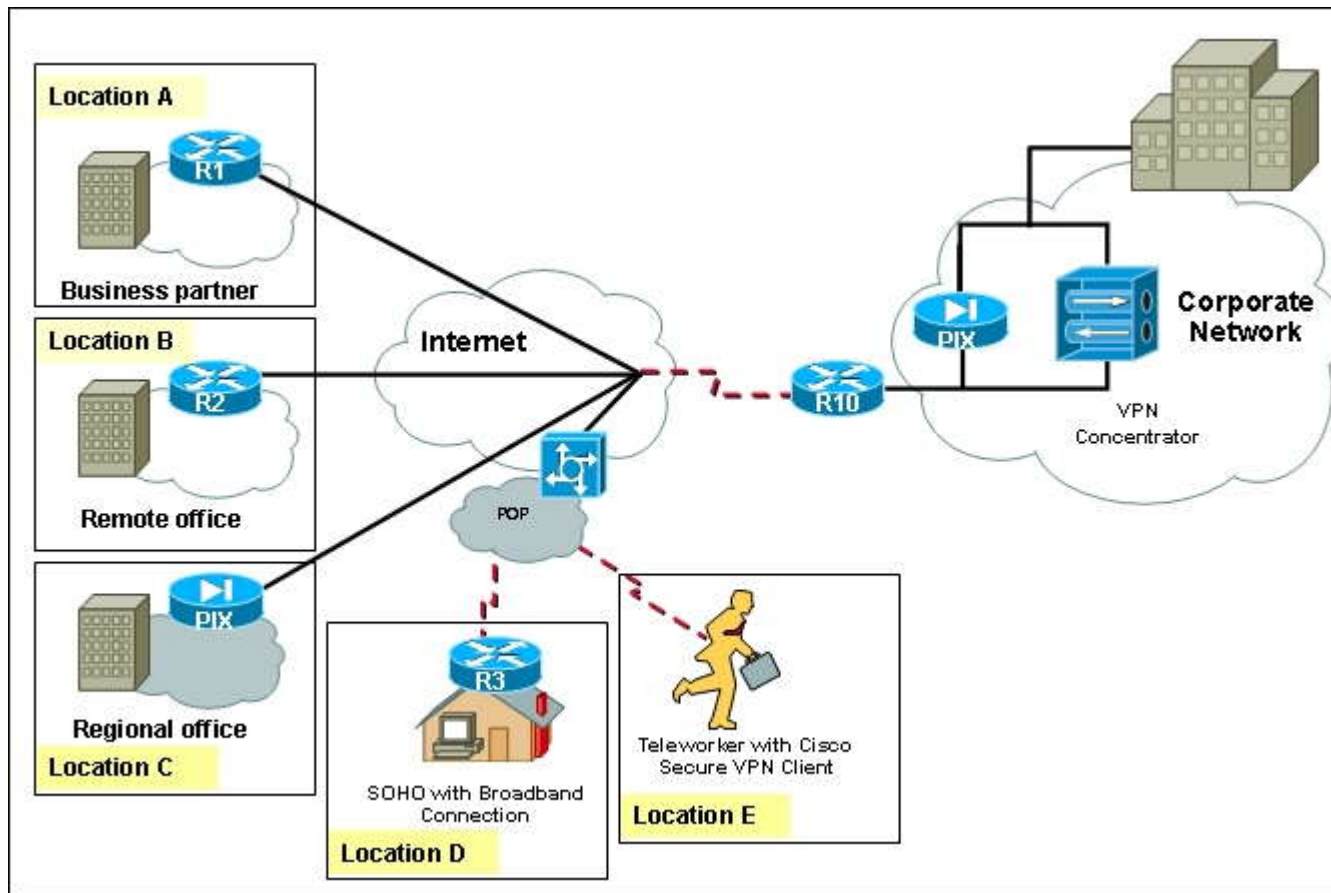
Refer to the exhibit. All users have a legitimate purpose and the necessary persissions to access the Corp[...]
network. Based on the topology shown, which locations are able to establish VPN connectivity with the [...]
Corporate network?

- ● Locations C, D, and E can support VPN connectivity. Locations A and B require an additional PIX [...]
  appliance installed on the edge of the network.
- ● Locations C and E can support VPN connectivity. Locations A, B, and D require an additional PIX [...]
  appliance installed on the edge of the network.
- ● Locations A, B, D, and E can support VPN connectivity. Location C requires an additional router on[...]
  edge of the network.
- ● All locations can support VPN connectivity.

4Data confidentiality through a VPN is achieved through which two methods? (Choose two.)
- ☐ digital certificates
- ☐ encryption
- ☐ encapsulation
- ☐ hashing
- ☐ passwords

5 After conducting research to learn about common remote connection options for teleworkers, a network administrator has decided to implement remote access over broadband to establish VPN connections over public Internet. What is the result of this solution?

- A reliable connection is established at greater speeds than what is offered from dialup over POTS. S[...] is increased, but username and password information are sent in plain text.
- The connection has increased security and reliable connectivity. Users need a remote VPN router or [...] client software.
- Security and reliability are increased at a substantial loss in throughput, which is considered acceptal[...] when supporting a single user environment.
- Reliability and security are increased without the need for additional equipment, when compared to [...] connections using POTS.

6 What two protocols provide data authentication and integrity for IPsec? (Choose two.)

- ☐ AH
- ☐ L2TP
- ☐ ESP
- ☐ GRE
- ☐ PPTP

7 A network administrator needs a secure connection between a remote site and the company HQ site. Wh[...] three protocols could the administrator use to connect the two sites? (Choose three.)

- ☐ Diffie-Hellman
- ☐ GRE
- ☐ L2TP
- ☐ PPTP
- ☐ WPA2
- ☐ 802.1x

8 Which is an example of symmetric-key encryption?

- Diffie-Hellman
- digital certificate
- pre-shared key
- RSA signature

9 Which two methods could an administrator use to authenticate users on a remote access VPN? (Choose [...]
- ☐ digital certificates

- ☐ ESP
- ☐ hashing algorithms
- ☐ smart cards
- ☐ WPA

10 While monitoring traffic on a cable network, a technician notes that data is being transmitted at 38 MH Which statement describes the situation observed by the technician?

- ⬤ Data is being transmitted from the subscriber to the headend.
- ⬤ Data is flowing downstream.
- ⬤ Cable television transmissions are interfering with voice and data transmissions.
- ⬤ The system is experiencing congestion in the lower frequency ranges.

11 Which two statements are valid solutions for a cable ISP to reduce congestion for users? (Choose two.)

- ☐ use higher RF frequencies
- ☐ allocate an additional channel
- ☐ subdivide the network to reduce users on each segment
- ☐ reduce the length of the local loop to 5.5 kilometers or less
- ☐ use filters and splitters at the customer site to separate voice from data traffic

12 Which statement describes cable?

- ⬤ Delivering services over a cable network requires downstream frequencies in the 50 to 860 MHz ra and upstream frequencies in the 5 to 42 MHz range.
- ⬤ The cable subscriber must purchase a cable modem termination system (CMTS)
- ⬤ Each cable subscriber has dedicated upstream and downstream bandwidth.
- ⬤ Cable subscribers may expect up to 27 Mbps of bandwidth on the upload path.

13 Which two features can be associated with the Worldwide Interoperability for Microwave Access (WiM telecommunication technology? (Choose two.)

- ☐ supports municipal wireless networks utilizing mesh technologies
- ☐ covers areas as large as 7,500 square kilometers
- ☐ supports point-to-point links, but not full mobile cellular-type access
- ☐ connects directly to the Internet through high-bandwidth connections
- ☐ operates at lower speeds than Wi-Fi, but supports many more users

14 A technician has been asked to configure a broadband connection for a teleworker. The technician has l

instructed that all uploads and downloads for the connection must use existing phone lines. Which broa
technology should be used?

- ● cable
- ● DSL
- ● ISDN
- ● POTS

15 Data confidentiality through a VPN can be enhanced through the use of which three encryption protocc
(Choose three.)

- ☐ AES
- ☐ DES
- ☐ AH
- ☐ hash
- ☐ MPLS
- ☐ RSA

16 A company is using WiMAX to provide access for teleworkers. What home equipment must the compa
provide at the teleworker's site?

- ● a WiMAX tower
- ● a one-way multicast satellite
- ● a WiMAX receiver
- ● an access point connected to the company WLAN

17 Which two statements accurately describe VPN connectivity? (Choose two.)

- ☐ Remote access VPNs provide remote users access to an internal network over a shared infrastructu
  VPN client software.
- ☐ Remote access VPNs provide remote users access to an internal network over a shared infrastructu
  VPN client software. The connection requires a VPN router or PIX appliance.
- ☐ Advanced encryption techniques and tunneling that are required to establish secure, end-to-end, pri
  network connections over third-party networks are unnecessary when remote access VPNs are used
- ☐ Site-to-site VPNs link headquarters, remote offices, and branch offices to an internal network over
  shared infrastructure using dedicated connections. The connection requires VPN client software.
- ☐ Site-to-site VPNs link headquarters, remote offices, and branch offices to an internal network over
  shared infrastructure using dedicated connections. The connection requires a VPN router or PIX ap
- ☐ Advanced encryption techniques and tunneling, which are required to establish secure, end-to-end,
  network connections over third-party networks, are unnecessary when site-to-site VPNs are used.

18 Which two Layer 1 requirements are outlined in the Data-over-Cable Service Interface Specification (DC

(Choose two.)

- [ ] channel widths
- [ ] access method
- [ ] maximum data rate
- [ ] modulation techniques
- [ ] compression techniques