**Vendor:** Cisco

**Exam Code:** 642-415

**Exam Name:** Cisco Unified Communications Architecture and Design (UCAD)

**Version:** DEMO

**QUESTION 1**

Consider the following customer attributes and choose the correct IP telephony call processing model:

- a large campus that spans two PSAP areas
- a single group of buildings connected via fiber optics
- data VPNs that support multiple contractors and suppliers
- a fully developed three-tier network hierarchy
- connectivity to two different service providers for Internet access

A. single-site call processing
B. centralized call processing
C. hybrid call processing
D. distributed call processing

**Answer:** A


**QUESTION 2**
What information is relevant to choosing an IP telephony centralized call processing model?

A. multiple PRIs to the PSTN
B. a campus of six buildings connected via an ATM backbone
C. three small regional sales offices located in the three Western time zones
D. centralized order processing, shipping, and billing for all customer products
E. connectivity to a single service provider that hosts the company web site and provides for Internet access
F. a single six-story building with an IDF on each floor and an MDF in the computer room on the second floor

**Answer:** C


**QUESTION 3**
In a TDM PBX to Cisco Unified Communications Manager migration, which three things must be verified from the LAN perspective before IP telephony can be deployed? (Choose three.)

A. the type of wiring in the office
B. the number of PSTN connections needed
C. the number of public IP addresses available
D. the amount of rack space in the equipment rack
E. the amount of power that is available to support new LAN switches

**Answer:** ADE


**QUESTION 4**
The intanet will have three VLAN types to support voice and data traffic; one type for voice, one type for data, and one type for the Cisco Unified Communications Manager cluster. How should inter-VLAN connectivity by deployed? Drag and drop the type of connectivity to each type of connection. Types of connections may be used more than once.

| Type of Connection | | Type of Connectivity | |
|---|---|---|---|
| Blocked | | Data-to-data | |
| Full | | Voice-to-voice | |
| Limited | | Voice-to-data | |
| | | Cisco Unified Communications Manager-to-data | |
| | | Cisco Unified Communications Manager-to-voice | |

**Answer:**

| Type of Connection | | Type of Connectivity | |
|---|---|---|---|
| Blocked | | Full | |
| Full | | Full | |
| Limited | | Blocked | |
| | | Limited | |
| | | Full | |
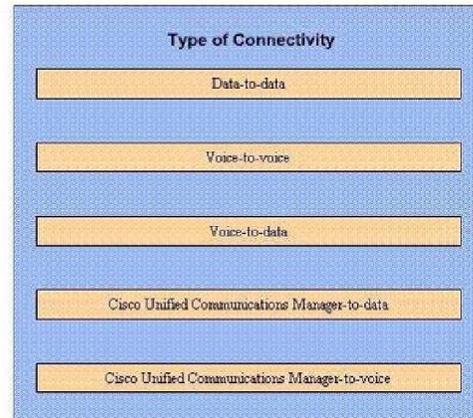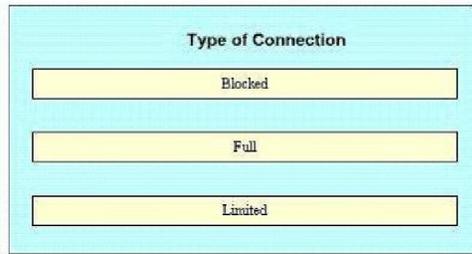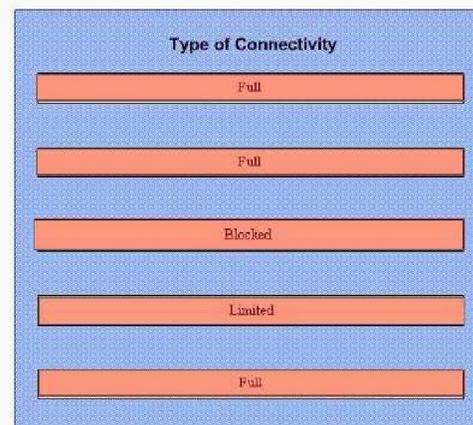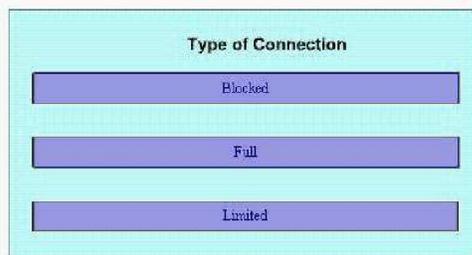
**QUESTION 5**
Ajax wants to ensure that their employees are safe and that they comply with the law. What are four general E911 responsibilities of an enterprise telephony system? (Choose four.)

A. Enable PSAP call-back.
B. Initiate the update of ALI records.
C. Provide a detailed map of all ERLs.
D. Allow conferencing with internal security personnel.
E. Route calls to the appropriate point (on-net or off-net).
F. Deliver appropriate calling party number digits to LEC.

**Answer:** ABEF

**QUESTION 6**
What are two conferencing guidelines for a single-site deployment? (Choose two.)

A. Use hardware conferencing only for small deployments.
B. If available, configure DSPs for flex-mode when there are multiple codec types in use.
C. Group any conferencing resources into MRGLs based on their location, to manage Call Admission Control.

D. Make certain that Meet-Me and Ad-Hoc conference resources each account for a minimum of 5% of the user base.

**Answer:** BD

**QUESTION 7**
Ajax needs to provide technical support outside of normal operating hours. They would like to deploy a small test call center to develop the skills necessary to provide phone, chat, and e-mail support. Ajax wants to start with five agents. Which two connection types would be applicable for use with the planned contact center? (Choose two.)

A. PRI
B. CAS
C. E&M
D. QSIG
E. POTS

**Answer:** AB

**QUESTION 8**
Indicate whether T1s orE1s are available in your area. (Note: If both are available, choose the one with which you are most familiar.)

A. T1
B. E1

**Answer:** B
**Explanation:**
If you check "E1" answer in this question, in next question you will get scenario where are E1s connected to the enterprise gateway.The matrix which you attached shows how many voice channels you need regarding number of Erlangs you got from calculations.
For example: if you get 100,5 Erlangs, you should take 118 channels (there is no "118" number on the picture, but for 100.2 tou get 117, so for 100.5 you take 118). In case you choose E1 link: 118/30=3.9 so you need 4 E1s.

**QUESTION 9**
You have decided to use the MGCP signaling protocol for the PSTN gateway at Ajax. Which option is true regarding the use of a gatekeeper in their network?

A. One may be used for CAC.
B. One could be used for address resolution.
C. One may be deployed for both CAC and address resolution.
D. A gatekeeper is not applicable in this situation.

**Answer:** D

**QUESTION 10**
Ajax has contacted its LEC to obtain an additional range of DIDs. Their current DID range is 555-6000 through 555-6999. The LEC can provide them with an additional range of numbers, 556-6000 through 556-6999. The LEC is currently sending four digits inbound, so the two DID ranges

overlap. What two things can be done to resolve this solution? (Choose two.)

A.  Ask the LEC to send five digits.
B.  Change internal calls to five-digit dialing.
C.  Move to a six-digit dial plan to provide more dialing granularity for all extension numbers.
D.  Contact an alternative carrier to see if it can provide a DID range that does not overlap with the current range.

**Answer:** AB

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