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QUESTION 1

What part of the network does a top-down network design focus on for solution development?

A. presentation

B. hardware

C. session

D. application

E. data link

F. transport

Correct Answer: D

QUESTION 2

Which of these is the equation used to derive a 64 Kbps bit rate?

A. 2 x 8 kHz x 4-bit code words

B. 8 kHz x 8-bit code words

C. 2 x 4-bit code words x 8 kHz

D. 2 x 4 kHz x 8-bit code words

Correct Answer: D

Explanation: While the human ear can sense sounds from 20 to 20, 000 Hz, and speech encompasses sounds from about 200 to 9000 Hz, the telephone channel was designed to operate at about 300 to 3400 Hz. This economical range

carries enough fidelity to allow callers to identify the party at the far end and sense their mood. Nyquist decided to extend the digitization to 4000 Hz, to capture higher-frequency sounds that the telephone channel may deliver. Therefore, the

highest frequency for voice is 4000 Hz. According to Nyquist theory, we must double the highest frequency, so 2x4kHz = 8kHz. Each sample will be encoded into a 8-bit code. Therefore 8kHz x 8-bit code = 64 Kbps (notice about the unit

Kbps: 8kHz = 8000 samples per second so 8000 x 8- bit = 64000 bit per second = 64 Kilobit per second = 64 Kbps)

Link: http://encyclopedia2.thefreedictionary.com/Nyquist+theorem

Note:

Nyquist theory:

"When sampling a signal (e.g., converting from an analog signal to digital), the sampling frequency must be greater than twice the bandwidth of the input signal in order to be able to reconstruct the original perfectly from the sampled version."

QUESTION 3

Select and Place:

Drag the network characteristic on the left to the design method on the right which will best ensure redundancy at the building distribution layer.

Support Layer 2 VLANs spanning multiple access layer switches across the distribution switches	Layer 2 between distribution and access layers, with a Layer 3 link between the distribution switches
Convergence (FHRP) is not an issue	Layer 2 between distribution and access layers, with a Layer 2 link between the distribution switches
FHRP for convergence, no VLANs span between access layer switches across the distribution switches	VSS

Correct Answer:

Drag the network characteristic on the left to the design method on the right which will best ensure redundancy at the building distribution layer.

Layer 2 between distribution and access layers, with a Layer 3 link between the distribution switches	ccess es	
VSS		
Layer 2 between distribution and access layers, with a Layer 2 link between the distribution switches	een	

Explanation/Reference:

The following are recommended best practices at the distribution layer:

Use First-Hop Redundancy Protocols. Hot Standby Router Protocol (HSRP) or Gateway Load Balancing Protocol (GLBP) should be used if you implement Layer 2 links between the Layer 2 access switches and the distribution layer.

Use Layer 3 routing protocols between the distribution and core switches to allow for fast convergence and load balancing.
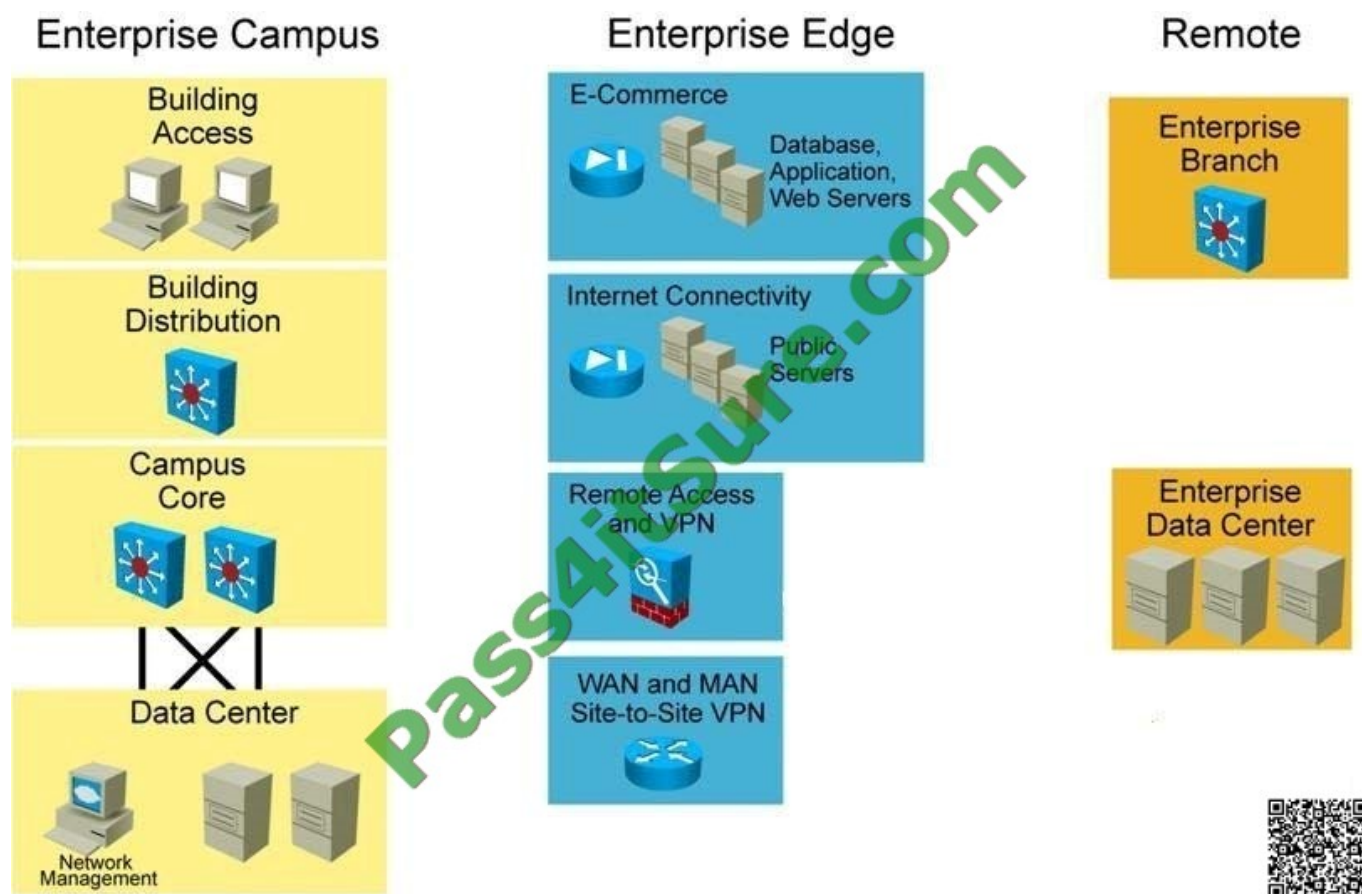
Use the distribution switches to connect Layer 2 VLANs that span multiple access layer switches.

Use Virtual Switching System (VSS) to eliminate the use of STP and the need for HSRP.

QUESTION 4

Refer to the exhibit.

Which three modules would typically utilize public IPv4 addressing? (Choose three.)

A. Access

B. Distribution

C. Core

D. Data Center

E. E-Commerce

F. Internet Connectivity

G. Remote Access/VPN

H. WAN/MAN

I. Branch

J. Branch Data Center

Correct Answer: EFG

QUESTION 5

You want to gather as much detail as possible during a network audit with a minimal impact on the network devices themselves. Which tool would you use to include data time stamping across a large number of interfaces while being customized according to each interface?

A. RMON

B. SNMPv3

C. NetFlow

D. Cisco Discovery Protocol

Correct Answer: C

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