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**Routing and Switching Solutions
For Systems Engineers Exam (RSSSE)**
642-054

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QUESTION: 1 DRAG DROP
Your boss at Pass.com, Mrs. Pass, is curious about Cisco design. Match the definition with the appropriate design.

Domains, select from these

Building design	Modular design
Multilayer design	Collapsed backbone design

Definitions

Consists of a number of building blocks connected across a compus backbone, providing scalability and redundancy

Gigabit Ethernet trunks connect Layer 2 switches in each wiring closet to a redundant pair of Layer 3 switches in the distribution layer

Layer 3 switches form a collapsed building backbone. Layer 2 switches with a redundant gigabit uplinks to the backbone are placed in closets to service desktops

Consists of two or more Layer 3 switches where the core and distribution layers coexists and lends itself well to the small to medium-sized campus network

Domains, place here

Place here

Place here

Place here

Place here

Answer:

Definitions

Consists of a number of building blocks connected across a compus backbone, providing scalability and redundancy

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Domains, place here

Building design

Multilayer design

Modular design

Collapsed backbone design

QUESTION: 2 DRAG DROP
Your boss at Pass.com, Mrs. Pass, is curious about domains. Match the definition with
the appropriate domain.

Domains, select from these

Failure domain	Broadcast domain
Policy domain	Spanning tree domain

Definitions

Domains, place here

MAC layer in which layer two frames flood the whole
Layer 2 switched domain

Place here

A group of connected Layer 2 switches

Place here

Layer 2 switches that break loops in the layer topology
by putting redundant links in blocking mode that do not
forward traffic

Place here

A group of servers, with similar access guidelines, that
are conveniently grouped together in the same IP subnet
and the same VLAN

Place here

Answer:

Definitions

Domains, place here

MAC layer in which layer two frames flood the whole
Layer 2 switched domain

Broadcast domain

A group of connected Layer 2 switches

Failure domain

Layer 2 switches that break loops in the layer topology
by putting redundant links in blocking mode that do not
forward traffic

Spanning tree domain

A group of servers, with similar access guidelines, that
are conveniently grouped together in the same IP subnet
and the same VLAN

Policy domain
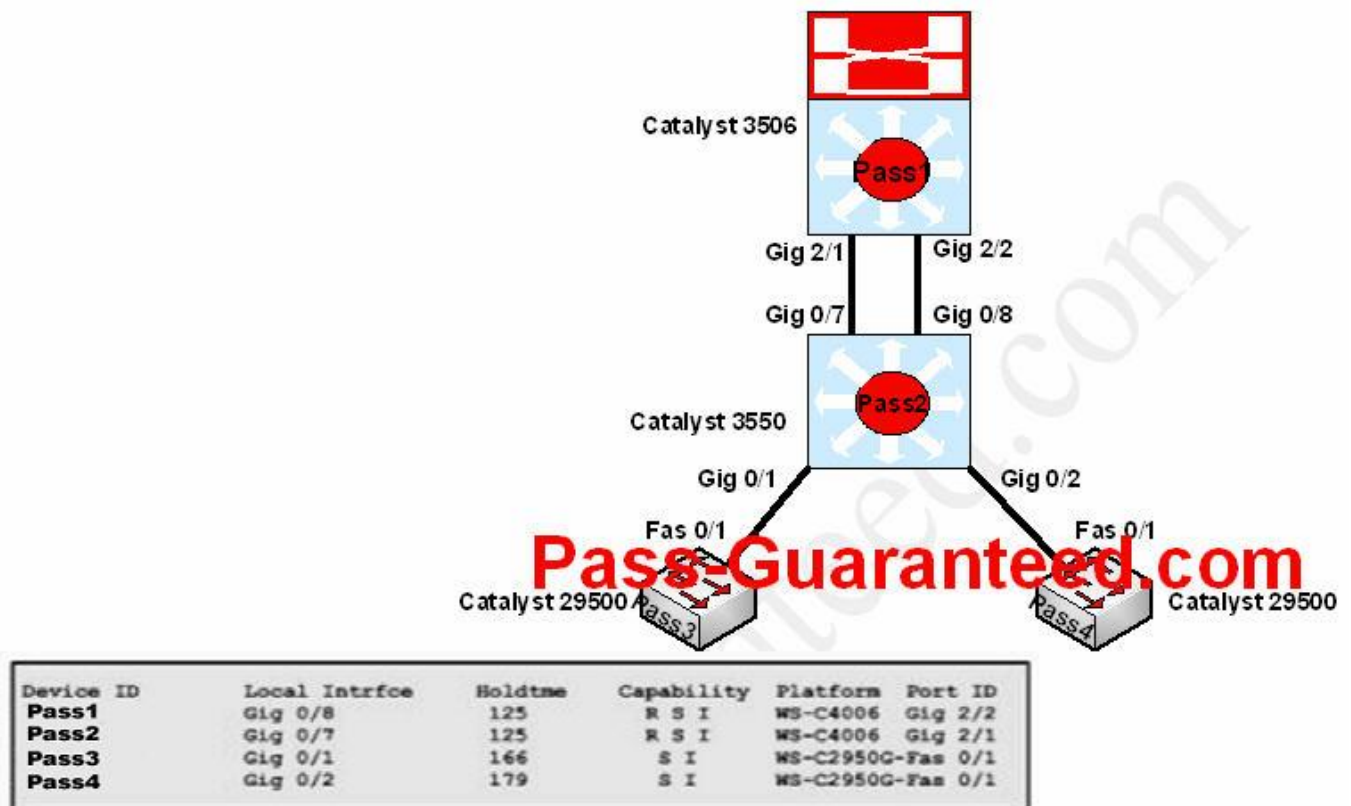
QUESTION: 3
Refer to the exhibit. Based on this network diagram and output from a show cdp neighbors Cisco IOS command, on which network device is the command being executed?

Exhibit:

Device ID	Local Intrfce	Holdtme	Capability	Platform	Port ID
Pass1	Gig 0/8	125	R S I	WS-C4006	Gig 2/2
Pass2	Gig 0/7	125	R S I	WS-C4006	Gig 2/1
Pass3	Gig 0/1	166	S I	WS-C2950G	Fas 0/1
Pass4	Gig 0/2	179	S I	WS-C2950G	Fas 0/1

A. Pass2
B. Pass4
C. Pass3
D. Pass1

Answer: A

QUESTION: 4
What is the difference between the two redundant states that a Cisco Catalyst 6500 Series power supply can operate in?

A. In redundant mode, one power supply works until it reaches 50 percent power consumption, then the load is shared equally across the power supplies.

B. In redundant mode, both power supplies work at 50 percent of capacity, and in a non-redundant mode, the power available to the system is the combined power capability of both power supplies.

C. In redundant mode, one power supply works at 100 percent of capacity while the other provides instantaneous backup, and in combined mode the output of each power supply is configured by the user.

D. In redundant mode, both power supplies work at 50 percent of capacity, and in non-redundant mode the output of each power supply is configured by the user.

Answer: B

QUESTION: 5
Refer to the exhibit. What are three key benefits of implementing this branch solution using the components listed? (Choose Three)

Exhibit: *** MISSING ***

A. Maximizes concurrent routing and switching performance by using local processors and switching engines

B. Supports standard 802.3af PoE

C. Provides feature parity with the Cisco Catalyst 3750 Series of switches

D. Provides integrated configuration of both routing and switching functions under a single Cisco IOS instance.

E. Switch ports can be stacked with external Catalyst Series switches using Cisco StackWise technology

Answer: A, B, C

QUESTION: 6
You have received an RFP from a potential client to design a network for a new corporate campus. This campus will encompass administration, sales, and R&D, and it will pull all the distributed IT functions into a new data center. The campus will consist of five buildings, each with four floors. The buildings will be linked via high-strand-count, single-mode fiber-optic cable to the new data center in building 3. Each building will have an MDF with at least one telco closet per floor and at least two runs of Category 5

UTP cable will go to each work location. Multistrand multimode will connect each telco closet to the MDF. Each MDF will have dedicated power circuits and be backed up by batteries in the basement of each building and a generator.The corporation will require 3500 TDM telephones and approximately 100 of these will be in a call center in building 2. The corporation needs to increase collaboration in the workforce. Employees need the flexibility to be able to move from one floor to another or from one building to another to accomplish their jobs. Managers also need this flexibility without losing connectivity to the corporate network or their phones.Building 4 will house R&D. This portion of the network requires connectivity to the Internet, but it also must restrict which employees have access to certain parts of the R&D network.The data center will house all connections to the Internet and to the PSTN. The corporation also provides access to customers for customized applications support. A network operations center will monitor and maintain the network on a 365/24/7 basis. Which advanced technologies will be applicable to answering this RFP? (Choose three.)

A. Storage
B. IP communications
C. Security
D. Routing and switching
E. Data center

Answer: A, C, E

QUESTION: 7
Pass.com is planning to implement an MPLS VPN network. This customer will have two connections to its Service Provider. The PE - CE routing protocol is BGP. They also will be enabling the bgp multipath load sharing feature? Which two of the following is correct regarding the bgp multipath feature? (Choose two).

A. Multiple paths to the same destination will be entered into the routing information base.

B. To enable this feature, the command bgp multipath "max paths" command is used.

C. As a result of enabling this feature, BGP will not select a best path for this entry.

D. This feature will only work on EBGP paths and not on IBGP paths.

E. It must be configured under the VPN VRF address family.

F. To perform load balancing over these multiple paths CEF load balancing must be configured on either per-packet round robin or on a per-session basis.

Answer: A, F