

642-054 Access Routing and LAN Switching

Cisco RSSSE Routing and Switching Solutions for Systems Engineers

Practice Exam: 642-054 Exams

Exam Number/Code: 642-054

Exam Name: RSSSE Routing and Switching Solutions for Systems Engineers

Questions and Answers: 97 Q&As

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Exam : Cisco 642-054

Title : Cisco(r) RSSSE Routing and Switching Solutions for Systems Engineer

1. What are three important characteristics of the Cisco Catalyst C3560G-48PS switch? (Choose three.)

- A. supports Layer 3 IP routing services
- B. supports class 2, 802.3af PoE up to a maximum of 24 ports
- C. uses the GBIC/SFP form factor for dual-purpose ports
- D. provides a maximum forwarding bandwidth of 32 Gbps
- E. contains 48 Ethernet 10/100/1000 ports and 2 dual-purpose slots

Answer: ACD

2. Which three of these are benefits of deploying MPLS VPN to provide remote-site connectivity? (Choose three.)

- A. supports any-to-any routing between all sites
- B. provides enterprise traffic separation similar to Frame Relay or ATM
- C. dynamically establishes spoke-to-spoke tunnels as required
- D. simplifies hub router configuration where only a single multipoint GRE tunnel interface is used to support all remote sites
- E. traffic-engineered tunnels can be configured to provide customized routing of enterprise traffic across the SP network

Answer: ABE

3. Which Cisco 7600 module allows the router to be used as an aggregator for high-speed remote WAN links and transparent LAN services?

- A. CIP services
- B. link aggregator
- C. optical services
- D. transport services
- E. Enhanced FlexWAN
- F. multiflex trunking

Answer: E

4. Your customer needs to manage branch router configurations using local staff but is concerned that the Cisco CLI is too complicated. What should you recommend to mitigate this concern?

- A. The Cisco IOS CLI has context-sensitive help to ease the CLI configuration task.
- B. The Cisco IOS CLI Setup command provides guided steps for most configuration tasks.
- C. The Cisco IOS SDM simplifies configuration tasks.
- D. Cisco's website has configuration documentation available for all currently supported releases.
- E. Cisco Device Manager (CDM) has easy-to-use GUI wizards for most router configuration tasks.

Answer: C

5. When using the ISR to implement a NAC solution, the ISR is configured to act as which NAC component?

- A. 802.1x supplicant
- B. PVS
- C. posture agent
- D. NAD
- E. AAA server

Answer: D

6. You are required to upgrade the network of a multistory branch office building to support Cisco 7970 IP Phones throughout. Given that each phone uses 15.4 W, how many phones can a Cisco Catalyst 3750 support using Cisco Intelligent Power Management in a 48-port PoE configuration?

- A. 8
- B. 16
- C. 24
- D. 32
- E. 48

Answer: C

7. To improve performance on the ISR platforms when supporting concurrent integrated services, the network modules, HWICs, AIMS, and DSPs connect directly into which hardware component?

- A. custom ASIC
- B. SCSI bus
- C. PCI bus
- D. crossbar bus
- E. CPU

Answer: A

8. The PVDM slots on the motherboard of the Cisco 2800 and 3800 ISR are used for what purpose?

- A. to support built-in VPN acceleration providing high-performance Crypto offload
- B. to support the high-performance AIM modules
- C. to support the onboard TDM switch
- D. to support the integrated DSPs for voice termination, conferencing and transcoding
- E. to support the EVM

Answer: D

9. Which three are correct when applying Cisco IOS QoS features at the branch office? (Choose three.)

- A. Unidirectional applications may require bandwidth allocation in only one direction.
- B. On slow WAN links, TCP header compression should always be implemented for the voice traffic class.
- C. AutoQoS VoIP can automatically classify voice bearer and control traffic as well as video traffic.
- D. Branch routers are a strategic place to deploy NBAR policies for worm identification and policing.
- E. Classification and marking will need to be performed on the branch router's LAN edge in the ingress direction.

Answer: ADE

10. Refer to the exhibit. The policy map VoiceOut is an outbound service policy on interface serial 0/0. What overall congestion management feature is in use?

- A. priority queuing
- B. custom queuing
- C. low latency queuing
- D. weighted fair queuing
- E. class-based weighted fair queuing

Answer: C

11. Refer to the exhibit. You are required to upgrade the network of a two-story branch office building to support

wireless LAN access throughout the building. What three configuration tasks should be completed on the building switches to maximize the efficiency of the wireless design? (Choose three.)

- A. limit broadcast traffic to the access point by enabling VLAN filtering
- B. limit multicast traffic to the access point by enabling IGMP snooping
- C. enable VTP on the access point to allow VLAN support over the wireless network
- D. extend ISL VLAN trunks to the access points for VLAN transport
- E. limit the number of VLANs connecting to any access point to a maximum of 16

Answer: ABE

12. Which three are benefits of using the Cisco Cluster Management Suite Software to manage multiple switches? (Choose three.)

- A. can be accessed through any standard Web browser
- B. manages up to 16 geographically dispersed switches simultaneously
- C. manages up to 24 geographically dispersed switches simultaneously
- D. provides Web-based interface for configuring and managing Catalyst OS functions
- E. provides Web-based interface for configuring and managing Cisco IOS functions

Answer: ABE

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

- A. supports standard 802.3af PoE
- B. provides feature parity with the Cisco Catalyst 3750 Series of switches
- C. provides integrated configuration of both routing and switching functions under a single Cisco IOS instance.
- D. switch ports can be stacked with external Catalyst Series switches using Cisco StackWise technology
- E. maximizes concurrent routing and switching performance by using local processors and switching engines

Answer: ABE

14. Refer to the exhibit. Which type of campus network is represented?

- A. small
- B. medium
- C. large
- D. server farm

Answer: A

15. In most cases, when designing a small campus network, what is the top priority for the client?

- A. network redundancy
- B. support for applications
- C. high performance and availability
- D. cost effectiveness

Answer: D

16. Refer to the exhibit. What are three benefits of extending advanced QoS to the edge of the network? (Choose three.)

- A. enables immediate classification and marking of traffic
- B. guarantees end-to-end bandwidth
- C. minimizes traffic on the backbone
- D. enables easier setup of per-user policies
- E. frees up router processing power

Answer: ADE

17. Which three statements are correct regarding SDMv2.0? (Choose three.)

- A. supports smart wizards with built-in intelligence about recommended Cisco IOS configurations for different use scenarios

- B. extends its scope to other functions besides security, such as QoS policy configuration
- C. provides industry-leading security management tool available for all Cisco router and Catalyst switch platforms
- D. supports only HTTPS access, and not HTTP
- E. supports role-based access

Answer: ABE

18. What are three important characteristics of the Cisco Catalyst 2960G-24TC switch? (Choose three.)

- A. Each Ethernet 10/100/1000 port supports up to six priority queues each with two drop thresholds.
- B. does not support 802.3af PoE
- C. uses the GBIC/SFP form factor for dual-purpose ports
- D. provides a maximum forwarding bandwidth of 32 Gbps
- E. contains 24 Ethernet 10/100/1000 ports and 2 dual-purpose slot

Answer: BCD

19. What are three important characteristics of the Cisco Catalyst C3750G-48PS switch? (Choose three.)

- A. provides a maximum forwarding bandwidth of 32 Gbps
- B. supports class 2, 802.3af PoE up to a maximum of 24 ports
- C. provides GBIC support for a single 10 Gigabit Ethernet interface
- D. contains 48 Ethernet 10/100/1000 ports and 4 dual-purpose slots
- E. can group up to nine switches into a single stack using Cisco StackWise

Answer: ADE

20. Which two standards enable the PVDM module on the ISR to provide secure communications with IP Phones?

(Choose two.)

- A. SRTP
- B. AES encryption
- C. RUDP
- D. RSA signature
- E. MD5 hash
- F. IPSec

Answer: AB

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