

Exam : Cisco 642-054

**Title : Cisco® RSSSE Routing and
Switching Solutions for
Systems Engineer**

Version : Demo

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1. 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

2. 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

3. 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

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. 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

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

CISCO2811-AC-IP	2811 w/ AC+POE, 2FE, 4HWICs, 2PVDMs, 1NME, 2AIMS, IP BASE, 64F/256D
S28NIPV-12403	Cisco 2800 IP VOICE W/O CRYPTO
NME-16ES-1G-P	EtherSwitch Service Mod 16 10/100T POE + 1 GE, IP BASE
PVDM2-16	16-Channel Packet Voice/Fax DSP Module
VIC2-2FXO	Two-port Voice Interface Card - FXO (Universal)
VIC2-2FXS	Two-port Voice Interface Card - FXS
CAB-AC	Power Cord, 110V
ROUTER-SDM	Device manager for routers
PWR-2811-AC-IP	Cisco 2811 AC/IP power supply
MEM2800-256D-INC	256MB DDR DRAM Memory factory default for the Cisco 2800
MEM2800-64CF-INC	64MB CF default for Cisco 2800 Series

- 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

7. 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

8. 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

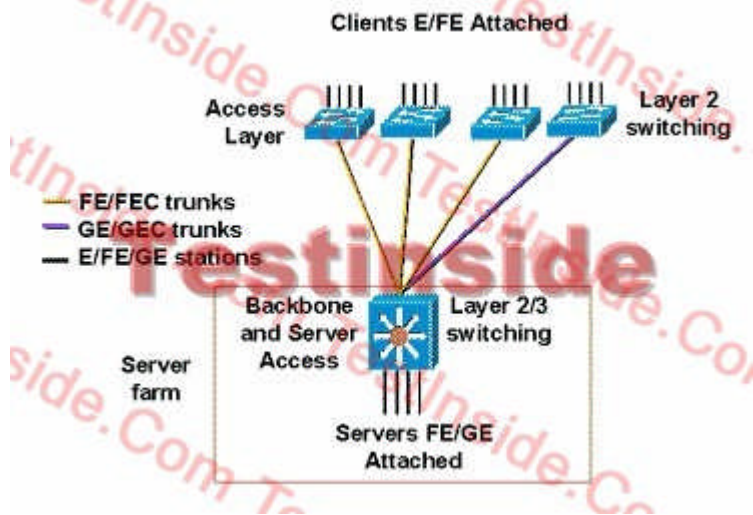
Answer: D

9. 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

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



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

Answer: A

11. 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

12. 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

13.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

14.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

15.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.)

- 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

18. 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

19. 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

20. 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?

```

R6#show policy-map
Policy Map Out
Class Bearer
  Weighted Fair Queueing
  Strict Priority
  Bandwidth 106 (kbps) Burst 2650 (Bytes)
Class Signaling
  Weighted Fair Queueing
  Bandwidth 10 (kbps) Max Threshold 64 (packets)
Class System
  Weighted Fair Queueing
  Bandwidth 15 (kbps) Max Threshold 64 (packets)
Class class-default
  Weighted Fair Queueing
  Flow-based Fair Queueing
  exponential weight 9
  class min-threshold max-threshold mark-probability
  -----
  0 - - 1/10
  1 - - 1/10
  2 - - 1/10
  3 - - 1/10
  4 - - 1/10
  5 - - 1/10
  6 - - 1/10
  7 - - 1/10
  rsvp - - 1/10
Traffic Shaping
Average Rate Traffic Shaping
CIR 640000 (bps) Max. Buffers Limit 1000 (Packets)
R6#
  
```

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

Answer: C

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