



Exam : 646-002

Title : Advanced Routing and Switching for
Account Managers

Ver : 10-12-07

QUESTION 1:

What feature of Cisco integrated services routers differentiates Cisco from the competition?

- A. Can be managed remotely
- B. Can be stacked to scale to more than 10,000 ports
- C. Can be remotely programmed to provide stateful failover
- D. Can integrate multiple technologies on one platform

Answer: D

QUESTION 2:

Of the following options, what are two benefits of a Cisco end-to-end solution?

- A. Common devices provide higher network throughput.
- B. Price breaks are possible on equipment upgrades.
- C. Common interface facilitates network management.
- D. Long-term investment protection provides a lower total cost of ownership.
- E. Established migration paths help reduce the initial investment.

Answer: C,D

QUESTION 3:

As one of the advantages of the Catalyst 6500 Series, which is the best description of highest availability? (Select one.)

- A. It has embedded real-time monitoring of VoIP call quality.
- B. It integrates proven, multi-gigabit Cisco security solutions, including intrusion detection, firewall, VPN, and SSL into existing networks.
- C. With Cisco IOS software modularity and redundancy in power supply, supervisor engine, switch fabric, and integrated network services, the 6500 Series provides one- to three-second stateful failover.
- D. Cisco IOS software modularity boosts operational efficiency and minimizes downtime.

Answer: C

QUESTION 4:

What is the purpose of CAC?

- A. Ensure that data streams do not take up bandwidth allocated to voice and video.
- B. Ensure that sufficient resources are available for a voice or video transmission before the transmission occurs.
- C. Determine whether packets are conforming to administratively defined traffic rates and take action accordingly.
- D. Mark frames and packets according to their service levels.

Answer: B

QUESTION 5:

The integrated services routers are best for which type of routing solutions? (Select one.)

- A. Branch routing
- B. WAN aggregation routing
- C. Headquarters routing
- D. Service-provider routing

Answer: A

QUESTION 6:

Which integrated services router(s) support digital or analog telephony? (Select one.)

- A. 800 and 1800 Series only
- B. 1800 and 2800 Series only
- C. 2800 and 3800 Series only
- D. 1800, 2800, and 3800 Series

Answer: D

QUESTION 7:

Edge routing is supported on which routers? (Select one.)

- A. Cisco 800, 1800, 2800, 3800 Series only
- B. Cisco 7200, 7300, 7600 Series only
- C. Cisco 7600 Series only
- D. Cisco 800, 1800, 2800, 3800, 7200, 7300, 7600 Series

Answer: D

QUESTION 8:

The Cisco 7200 Series routers are positioned for which market segment? (Select one.)

- A. Businesses looking for general enterprise WAN aggregation and security for headquarters solutions
- B. Businesses looking to become internet service providers
- C. Branch offices needing low-cost routing solutions
- D. Small businesses looking for the flexibility to upgrade in the future

Answer: B

QUESTION 9:

Which of the following features are included in Cisco Router and Security Device Manager?

- A. Tools that provide information regarding network devices, connectivity, VLAN/LANE and ATM configuration, analysis, and IP phone user and path information
- B. Tools that help integrate built-in knowledge of interactions between different Cisco IOS features, industry best practices, and TAC-recommended configurations
- C. Tools that help manage Cisco devices using inventory- and device-change management, network configuration and software image management, network availability, and syslog analysis
- D. Tools that are designed to assign priority to data packets based on dedicated bandwidth

Answer: B

QUESTION 10:

CiscoWorks supports which two of the following operating systems on a server? (Choose two.)

- A. Windows 2000 Server and Advanced Server with SP4
- B. Windows XP Professional
- C. Linux Enterprise Server 9
- D. Sun Solaris 2.8, 2.9
- E. SCO OpenServer

Answer: A,D

QUESTION 11:

How does the CiscoWorks Internetwork Performance Monitor help network administrators with plans to upgrade the network?

- A. By monitoring the network for a variety of fault conditions to determine where bottlenecks occur
- B. By providing historical reports regarding network performance that provide input for capacity planning
- C. By providing information about IP phone user and path information to identify where to locate Cisco CallManager
- D. By providing device-change management to identify locations where new equipment has already been placed into service

Answer: B

QUESTION 12:

Which of the following statements about headquarters routing solutions is true? (Select one.)

- A. Integrated services routers are best for headquarters routing.
- B. It is desirable for headquarters routers to be stackable, fixed-configuration routers.
- C. Headquarters routers are the central aggregation point for company data routing.
- D. A headquarters router is normally a connection point between the branch and WAN aggregation routers.

Answer: C

QUESTION 13:

Which of the Cisco Catalyst 500 Series switches can be used as an aggregation switch?

- A. Catalyst 500-24TT
- B. Catalyst 500-24LC
- C. Catalyst 500-24PC
- D. Catalyst 500G?2TC

Answer: D

QUESTION 14:

Cisco 800 Series routers are positioned for which market segment? (Select one.)

- A. Home/telecommuter office
- B. Small branch office
- C. Medium-sized businesses and entry-level enterprises
- D. Large enterprise campuses and service provider networks

Answer: B

QUESTION 15:

Which option is not correct for the Catalyst 4500 Series? (Select one.)

- A. Scalable architecture
- B. Optimal network control
- C. Designed for service providers
- D. Integrated Layer 2 security

Answer: C

QUESTION 16:

What is a business benefit of stateful failover in a Cisco IOS firewall?

- A. Because the network remains functioning, customers will not have to re-enter information entered before the failover occurred.
- B. IP addresses are maintained, so network administrators will be able to identify the cause of the failover.
- C. Any attacks on the network occurring at the time of the failover will stop because all connections will have to be re-established.
- D. The software that enables stateful failover also includes macros that automatically re-enter customer information that was entered before the event took place.

Answer: A

QUESTION 17:

Which of these statements correctly describes the Cisco 3800 Series integrated services routers? (Select one.)

- A. The 3800 Series routers offer IP-converged networking for small to midsize branches and businesses with multiple throughput and up to T1/E1-level connectivity.
- B. The 3800 Series routers are both fixed and modular, designed to meet a variety of small- to large-business network needs.
- C. The 3800 Series routers are designed for customers that want the widest variety of network interfaces and services in an integrated services router.
- D. The 3800 Series routers are fixed-configuration routers for small-office LANs.

Answer: C

QUESTION 18:

How much downtime will a highly available network have in one year?

- A. No more than one day
- B. No more than one hour
- C. No more than five minutes
- D. No more than one minute

Answer: C

QUESTION 19:

What component of CiscoWorks makes network management more efficient by providing single sign-on for distributed CiscoWorks servers?

- A. CiscoWorks Campus Manager
- B. CiscoView
- C. CiscoWorks Common Services
- D. CiscoWorks Resource Manager

Answer: C

QUESTION 20:

What capabilities does Cisco optimized edge routing add to Cisco routers? (Select one.)

- A. Maximize network security on the WAN edge.
- B. Replace switches for some network configurations.
- C. Increase the speed of network data routing.
- D. Increase efficiency, avoiding the need for redundant routers on the WAN edge.

Answer: C

QUESTION 21:

How does Cisco IOS software modularity help minimize downtime?

- A. By enabling modular Cisco IOS subsystems to run in independent, self-correcting processes
- B. By automatically notifying administrators when network performance falls below prescribed levels
- C. By automatically re-routing voice traffic to the PSTN if the WAN fails or becomes

congested

D. By enabling stateful failover on Catalyst 6500 switches

Answer: A

QUESTION 22:

A customer is upgrading the company network to include IP telephony. What would you do first to ensure that Cisco QoS tools are configured correctly?

- A. Analyze the service-level requirements.
- B. Identify the routers and switches that will be needed.
- C. Identify the operational results that will be used to measure performance.
- D. Define the strategic business objectives to be achieved.

Answer: D

QUESTION 23:

Which is the best definition of the VPN support available in the Cisco 7200 Series routers? (Select one.)

- A. It provides high port density and an extensive range of LAN and WAN media.
- B. It supports up to six port adapters in a fully modular 3-RU form factor.
- C. It allows for integration of data, voice, and video in a single device.
- D. It enables an integrated solution for routing and security including QoS, multicast, and multiprotocol traffic.

Answer: D

QUESTION 24:

What routing solution provides the flexibility, scalability, and performance needed to connect the high number of users and devices that access productivity-enhancing applications and services?

- A. Branch routing solution
- B. WAN aggregation routing solution
- C. Headquarters routing solution
- D. Edge routing solution

Answer: C

QUESTION 25:

Cisco Catalyst Express 500 Series switches are positioned for which market segment?

(Select one.)

- A. Telecommuter home office
- B. Small branch office of less than 250 employees
- C. Medium-sized branch office of between 250 and 500 employees
- D. Large office of between 500 and 1,000 employees

Answer: B

QUESTION 26:

Which of the following statements about WAN aggregation routing solutions is true?
(Select one.)

- A. The WAN aggregation router is the central router for the entire company.
- B. A WAN aggregation routing solution often includes Cisco 2800 and 3800 Series routers.
- C. A WAN aggregation router connects the company WAN with the headquarters data center.
- D. WAN aggregation routing is ideal for small business customers that desire internet connectivity.

Answer: C

QUESTION 27:

With an option of 24 or 48 ports per switch in the 3750 Series, what is the maximum number of switch ports that can be combined together in one stack? (Choose one.)

- A. 192
- B. 288
- C. 432
- D. 768

Answer: C

QUESTION 28:

What CiscoWorks component provides tools for managing Cisco devices using inventory- and device-change management?

- A. CiscoWorks DFM
- B. CiscoWorks Campus Manager
- C. CiscoWorks Resource Manager
- D. CiscoWorks ISRM

Answer: D

QUESTION 29:

What network management tool would you use to analyze IP telephone usage?

- A. CiscoWorks Campus Manager
- B. CiscoWorks Resource Manager
- C. Cisco Router and Security Device Manager
- D. CiscoView

Answer: A

QUESTION 30:

Which feature is least important for a WAN aggregation router? (Select one.)

- A. Port adapters ranging from NxDS0 to OC-12
- B. Three built-in Gigabit Ethernet ports on the routing engine
- C. Cisco StackWise technology
- D. LAN and WAN interfaces with up to 48 ports per chassis

Answer: C

QUESTION 31:

CiscoWorks supports which two of the following operating systems on a client? (Choose two.)

- A. Linux
- B. Microsoft Windows 2000 Professional
- C. Windows XP Professional
- D. Apple OS 10.X
- E. IBM OS/2

Answer: B,C

QUESTION 32:

Which statement is appropriate for the Cisco Catalyst 4948 Switch? (Select one.)

- A. Ideal for networks with desktops, printers, and wireless LAN access
- B. Designed for workgroups and wiring closets
- C. Gigabit Ethernet connectivity for small and medium-sized networks
- D. Designed for server farm and data center deployments that require wire speed gigabit

and ten-gigabit deployments

Answer: D

QUESTION 33:

The Cisco 7301 Router is attractive for headquarters customers who are looking for:
(Select one.)

- A. The functionality of Cisco 7200 Series routers but with a more compact form factor
- B. Scalability using VIPs
- C. A router with the most complete port adapter family
- D. A 2-RU form factor router

Answer: A

QUESTION 34:

What QoS tool prevents network congestion by allowing high priority packets to exit a device first?

- A. Scheduling
- B. AutoQoS
- C. CAC
- D. Policing

Answer: A

QUESTION 35:

Fixed-configuration switches are recommended for businesses with how many employees? (Select one.)

- A. 0-250
- B. 0-1,000
- C. 1,000 or higher
- D. 5,000 or higher

Answer: A

QUESTION 36:

What two statements would you give to a telecommunications manager concerned about voice support? (Choose two.)

- A. Cisco specifically hires and trains voice professionals.

- B. With a converged network, voice support is not really needed.
- C. Cisco can provide you with a variety of support options customized to your needs.
- D. Your own staff can be trained to provide any needed voice support.
- E. Cisco high-availability features virtually eliminate the need for support.

Answer: A,C

QUESTION 37:

Of the options listed, what two steps should you take when conducting a business case or return on investment analysis? (Choose two.)

- A. Prepare a cost/benefit analysis of the equipment.
- B. Focus your comparison only on the primary competitor.
- C. Include recommendations for changing business processes.
- D. Align the solution with network performance metrics.
- E. Align the solution with customer business objectives.

Answer: C,E

QUESTION 38:

Which statement about the integrated services router family routing solution is correct? (Select one.)

- A. Integrated services routers are designed for large enterprise customers and service providers.
- B. Integrated services routers are designed for small to medium-sized businesses that route data at the access level and support several services.
- C. Integrated services routers work in combination with 6500 Series switches at the enterprise core.
- D. Integrated services routers have fixed configurations designed for the needs of each customer.

Answer: B

QUESTION 39:

What network management tool includes charts that show router and network resources in order to help increase the efficiency of IT staff with limited technical expertise?

- A. Cisco Router and Security Device Manager (SDM)
- B. CiscoWorks Resource Manager
- C. CiscoWorks Device Fault Manager (DFM)
- D. CiscoWorks Campus Manager

Answer: A

QUESTION 40:

Which of the following is not a benefit of fixed-configuration branch routers? (Select one.)

- A. Less expensive
- B. Easier to install and maintain
- C. Highly scalable
- D. Integrated systems approach

Answer: C

QUESTION 41:

How would you respond to a client if the CEO of their company asks you to justify the initial cost of converting to a converged network?

- A. The initial cost is high, but your network performance will also improve significantly.
- B. A converged architecture simplifies a network, which dramatically lowers operating costs, which are the largest costs associated with a purchase, as well as reduces training and management costs.
- C. The cost is high because of the features that are included in our equipment.
- D. The network will be less complex. Your IT staff will be much more efficient and productive.

Answer: B

QUESTION 42:

Which of the following Catalyst 6500 Series module cards supports Cisco Express Forwarding? (Select one.)

- A. Service modules
- B. Supervisor engines
- C. WAN interfaces
- D. Switch fabric

Answer: D

QUESTION 43:

What feature of a hierarchical network design that includes a core layer, a distribution layer, and an access layer helps ensure that employees will always have access to critical

business applications?

- A. A minimal configuration at the core layer
- B. Standby switches configured with regular failover at the distribution layer
- C. Standby switches configured with regular failover at the access layer
- D. Dual paths from layer to layer

Answer: D

QUESTION 44:

Which router series is most appropriate for a small office or teleworker routing solution? (Select one.)

- A. Cisco 7300 Series
- B. Cisco 2800 Series
- C. Cisco 800 Series
- D. Cisco 3800 Series

Answer: C

QUESTION 45:

The Catalyst 6500 Series switch is positioned for which market segment? (Select one.)

- A. Home/telecommuter office
- B. Small branch office
- C. Medium-sized businesses
- D. Large enterprise campuses and service provider networks

Answer: D

QUESTION 46:

What features of the Cisco Catalyst 4500 Switch decrease network downtime?

- A. Modular components enable application redundancy
- B. Cisco StackWise technology enables redundant switch configurations
- C. Hot-swappable fans and power supplies
- D. Integrated services routing with dual packet-switching module trays

Answer: C

QUESTION 47:

How do Cisco supervisor engines installed on Catalyst switches support network

performance?

- A. By notifying administrators when a problem that requires attention has occurred
- B. By performing control functions and make forwarding decisions for packet routing
- C. By scheduling higher-priority packets to exit sooner than lower priority ones
- D. By inspecting packets and sessions to determine whether they should be transmitted or dropped

Answer: B

QUESTION 48:

Which of the following routers are best suited for high-end WAN aggregation? (Select one.)

- A. Cisco 7200 Series
- B. Cisco 7300 Series
- C. Cisco 7500 Series
- D. Cisco 7600 Series

Answer: C

QUESTION 49:

What is the purpose of CiscoWorks Campus Manager?

- A. Troubleshooting network performance using real-time and historical reports
- B. Monitoring the network for a variety of fault conditions
- C. Implementing standard recovery actions available in the TAC knowledge base
- D. Configuring, managing, understanding, and visualizing Layer 2 infrastructures

Answer: D

QUESTION 50:

How many Cisco 3750 Series switches can be combined together using Cisco StackWise technology? (Select one.)

- A. Three
- B. Six
- C. Nine
- D. Twelve

Answer: C

QUESTION 51:

When looking at the cost of upgrading a network, what are two hidden factors that impact long-term TCO? (Choose two.)

- A. Shortened warranty periods
- B. Hardware upkeep and replacement
- C. Network upgradeability
- D. Initial purchase price
- E. Deployment costs

Answer: A,B

QUESTION 52:

Which of these options describes Cisco StackWise technology? (Select one.)

- A. Cisco StackWise technology joins individual, stackable switches to create a single functional switch.
- B. Cisco StackWise technology creates data stacks to prioritize converged network traffic.
- C. Cisco StackWise technology joins modular switches together to provide switching redundancy.
- D. Cisco StackWise technology groups routers and switches together in the wiring closet.

Answer: A

QUESTION 53:

How does using Cisco as the sole vendor for network equipment help a customer reduce operating expenses?

- A. Cisco offers a discount on the cost of equipment.
- B. Customers that use only Cisco products receive free support.
- C. Efficient network management allows the IT staff to do more with less.
- D. Customers have a single source of information for troubleshooting.

Answer: C

QUESTION 54:

Which of the following switches is not a fixed configuration switch? (Select one.)

- A. 500 Series
- B. 2900 Series
- C. 4500 Series

D. 4900 Series

Answer: C

QUESTION 55:

Which statement about the integrated services router family routing solutions is correct?
(Select one.)

- A. An integrated service router is for a large company implementing a service provider network.
- B. An integrated services router is for small or midsize businesses wanting to implement a converged voice and data network.
- C. An integrated services router is designed for the small to midsize business server farm.
- D. An integrated services router is designed for the enterprise network edge.

Answer: B

QUESTION 56:

What routing solutions provides the flexibility, scalability, and performance needed to connect the high number of users and devices that access productivity-enhancing applications and services? (Select one.)

- A. Branch routing solution
- B. WAN aggregation routing solution
- C. Headquarters routing solution
- D. Edge routing solution

Answer: C

QUESTION 57:

How does Cisco SRST help ensure the availability of telephone service on a converged network?

- A. When installed with Cisco CallManager on a server at headquarters, SRST automatically reroutes voice traffic to and from the branch offices to the PSTN if the WAN becomes congested.
- B. When installed on a router at a branch location, SRST automatically configures the local router to provide call processing for the IP phones if Cisco CallManager is unavailable because of a network failure.
- C. SRST allows legacy analog equipment at a remote site to connect to the packet-switched IP network if the IP

telephones lose power.

D. SRST, a QoS tool loaded automatically on Cisco routers used in a voice network, includes a management GUI that shows administrators the state of the network at all times.

Answer: B

QUESTION 58:

How does CiscoView improve network management?

A. By displaying a physical view of a Cisco device that allows administrators to change configuration parameters and to monitor statistics

B. By monitoring the network for a variety of fault conditions and notifying administrators when a problem requiring their attention has occurred

C. By providing a GUI that allows users to make changes without having to enter commands using the Cisco IOS CLI

D. By providing tools that allow administrators to troubleshoot network performance using real-time and historical reports

Answer: A

QUESTION 59:

The Cisco Catalyst 4500 and 6500 Series switches have bandwidth scalability up to what levels? (Select one.)

A. 34 Gbps for the 4500 Series, 180 Gbps for the 6500 Series

B. 68 Gbps for the 4500 Series, 360 Gbps for the 6500 Series

C. 136 Gbps for the 4500 Series, 720 Gbps for the 6500 Series

D. 204 Gbps for the 4500 Series, 1,080 Gbps for the 6500 Series

Answer: C

QUESTION 60:

How does AutoQoS simplify network management?

A. AutoQoS monitors network conditions and automatically changes the parameters of QoS tools in order to optimize network performance.

B. AutoQoS includes a GUI and tutorials that allow non-technical personnel to enter parameters for QoS tools.

- C. AutoQoS allows an administrator to enter macros that enable the appropriate features for the recommended QoS settings for an application on a specific interface.
- D. AutoQoS examines equipment that is added to the network and loads the appropriate QoS tools, based on administrative policies.

Answer: C