

📖 EASY (10 Questions)

Q1. Cisco IOS primarily provides:

- A. Hardware abstraction only
- B. Routing and switching control
- C. Physical connectivity
- D. Application hosting

Q2. Which Cisco IOS mode allows basic monitoring commands?

- A. Global configuration mode
- B. Privileged EXEC mode
- C. User EXEC mode
- D. ROMMON mode

Q3. Which command moves from user EXEC to privileged EXEC mode?

- A. login
- B. enable
- C. configure
- D. exec

Q4. Cisco IOS is stored permanently in which memory?

- A. RAM
- B. ROM
- C. Flash
- D. NVRAM

Q5. Which memory stores the startup configuration?

- A. RAM
- B. ROM
- C. Flash
- D. NVRAM

Q6. What is the default Cisco IOS prompt for user EXEC mode?

- A. Router#
- B. Router(config)#
- C. Router>
- D. Router(exec)#

Q7. Which interface is used for out-of-band management?

- A. FastEthernet
- B. Serial
- C. Console
- D. Loopback

Q8. SDM stands for:

- A. Security Device Manager
- B. Switch Device Mode
- C. System Data Manager
- D. Secure Device Module

Q9. Which protocol does SDM primarily use to manage routers?

- A. FTP
- B. HTTP/HTTPS
- C. SNMP
- D. Telnet only

Q10. Cisco SDM provides:

- A. CLI-only management
- B. GUI-based configuration
- C. Hardware diagnostics
- D. Traffic encryption

☐ **MEDIUM (15 Questions)**

Q11. Which IOS mode allows configuration changes?

- A. User EXEC
- B. Privileged EXEC
- C. Global Configuration
- D. ROMMON

Q12. Which command saves the running configuration?

- A. save config
- B. write memory
- C. copy flash startup-config
- D. reload config

Q13. Which memory holds the running configuration?

- A. ROM
- B. Flash
- C. RAM
- D. NVRAM

Q14. What happens if no IOS image is found during boot?

- A. Router shuts down
- B. Router enters ROMMON mode
- C. Router reloads continuously
- D. Router uses startup-config

Q15. Which IOS command displays interface status?

- A. show ip route
- B. show interfaces
- C. show running-config
- D. show version

Q16. Cisco IOS uses which type of interface numbering?

- A. Logical only
- B. Physical only
- C. Physical and logical
- D. Virtual only

Q17. Which SDM feature simplifies security configuration?

- A. Manual scripting
- B. Wizard-based setup
- C. Hardware encryption
- D. CLI parsing

Q18. Which access method allows encrypted remote management?

- A. Telnet
- B. HTTP
- C. SSH
- D. TFTP

Q19. Which Cisco IOS command displays the IOS version?

- A. show ip protocols
- B. show running-config
- C. show version
- D. show startup-config

Q20. SDM is mainly used for configuring:

- A. Physical cabling
- B. Security features
- C. BIOS settings
- D. Routing tables only

Q21. Which mode is required to configure interfaces?

- A. User EXEC
- B. Privileged EXEC
- C. Interface configuration
- D. ROMMON

Q22. Which Cisco IOS component handles packet forwarding?

- A. Control plane
- B. Data plane
- C. Management plane
- D. Application plane

Q23. Which command enters global configuration mode?

- A. config
- B. configure terminal
- C. global
- D. setup

Q24. Which IOS feature allows command auto-completion?

- A. Tab key
- B. Help key
- C. Ctrl+C
- D. Esc key

Q25. Which SDM requirement is mandatory?

- A. Java-enabled browser
 - B. Console cable only
 - C. SNMP server
 - D. TFTP server
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HARD (15 Questions)

Q26. During boot, which IOS component performs POST?

- A. Flash
- B. ROM
- C. NVRAM
- D. RAM

Q27. Which memory is volatile in a Cisco router?

- A. Flash
- B. ROM
- C. NVRAM
- D. RAM

Q28. Which IOS mode is used for password recovery?

- A. User EXEC
- B. Privileged EXEC
- C. ROMMON
- D. Interface mode

Q29. Which SDM limitation reduced its usage in modern networks?

- A. CLI dependency
- B. Browser and Java dependency
- C. No security support
- D. No routing support

Q30. Which IOS command shows the configuration currently in RAM?

- A. show startup-config
- B. show flash
- C. show running-config
- D. show ip interface brief

Q31. Which IOS component ensures secure remote access?

- A. VTY lines
- B. Console lines
- C. AUX port
- D. ROMMON

Q32. Why is SSH preferred over Telnet?

- A. Faster speed
- B. Lower bandwidth
- C. Encrypted communication
- D. Easier configuration

Q33. Which SDM function assists in firewall deployment?

- A. Static routing
- B. Security configuration wizards
- C. VLAN tagging
- D. Interface shutdown

Q34. Which IOS plane is responsible for routing protocol calculations?

- A. Data plane
- B. Control plane
- C. Management plane
- D. Forwarding plane

Q35. Which command sequence correctly saves configuration?

- A. copy startup-config running-config
- B. write erase
- C. copy running-config startup-config
- D. reload

Q36. Which IOS feature allows recovery from corrupted IOS?

- A. Flash erase
- B. ROMMON TFTP boot
- C. NVRAM reset
- D. Interface reset

Q37. Which SDM communication protocol ensures confidentiality?

- A. HTTP
- B. FTP
- C. HTTPS
- D. SNMPv1

Q38. Which IOS command displays brief interface IP info?

- A. show interfaces
- B. show ip interface brief
- C. show version
- D. show protocols

Q39. Which IOS configuration protects privileged EXEC mode?

- A. line vty password
- B. enable password / enable secret
- C. console password
- D. aux password

Q40. Which statement best describes Cisco IOS?

- A. Hardware platform
- B. Routing protocol
- C. Network operating system
- D. Application software