⬜ EASY (10 Questions)

Q1. The router boot process begins with which component?

A. IOS
B. POST
C. Startup configuration
D. Routing table

Q2. Which memory stores the router's startup configuration?

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

Q3. Which interface is used for initial router configuration?

A. Ethernet
B. Serial
C. Console
D. Loopback

Q4. The command to set a router hostname is:

A. set hostname
B. router-name
C. hostname
D. name

Q5. Which protocol resolves hostnames to IP addresses on a router?

A. ARP
B. DNS
C. ICMP
D. SNMP

Q6. Which IOS command displays the routing table?

A. show version
B. show interfaces
C. show ip route
D. show protocols

Q7. Telnet operates at which TCP port by default?

A. 21
B. 22
C. 23
D. 80

Q8. Which access method is considered insecure?

A. SSH
B. Console
C. AUX
D. Telnet

Q9. The default router prompt symbol "#" indicates:

A. User EXEC mode
B. Global configuration mode
C. Privileged EXEC mode
D. Interface configuration mode

Q10. Which IOS feature helps identify command syntax errors?

A. Tab completion
B. Context-sensitive help
C. Debug command
D. Ping

☐ MEDIUM (15 Questions)

Q11. Which step occurs first during the router boot sequence?

A. Load startup-config
B. Locate IOS
C. Perform POST
D. Initialize interfaces

Q12. Which configuration register value is most commonly used?

A. 0x2100
B. 0x2142
C. 0x2102
D. 0x2000

Q13. Which command enables DNS name resolution?

A. ip dns
B. ip domain-lookup
C. ip name-server
D. dns enable

Q14. What happens if the startup-config file is missing?

A. Router shuts down
B. Router loads IOS only
C. Setup mode starts
D. ROMMON mode starts

Q15. Which command tests network layer connectivity?

A. traceroute
B. ping
C. telnet
D. debug ip

Q16. Which protocol is used by traceroute to discover paths?

A. TCP only
B. UDP/ICMP
C. ARP
D. SNMP

Q17. Which IOS command enables hostname-to-IP mapping locally?

A. ip name-server
B. ip host
C. hostname
D. name-server

Q18. Which access line is used for remote router access?

A. Console
B. AUX
C. VTY
D. Loopback

Q19. Which IOS debug command monitors packet routing decisions?

A. debug arp
B. debug ip routing
C. debug interface
D. debug ip packet

Q20. Which command disables DNS lookup delays on mistyped commands?

A. no ip route
B. no ip domain-lookup
C. no dns enable
D. no hostname

Q21. Which register value causes router to ignore startup-config?

A. 0x2102
B. 0x2142
C. 0x2100
D. 0x2002

Q22. Which IOS feature allows testing reachability without logging in?

A. Telnet
B. Ping
C. SSH
D. FTP

Q23. Which router memory holds routing tables?

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

Q24. Which command resolves IP-to-hostname mapping?

A. nslookup
B. show hosts
C. ip host
D. show ip dns

Q25. Which mode allows execution of debug commands?

A. User EXEC
B. Privileged EXEC
C. Global configuration
D. Interface configuration

⬤ HARD (15 Questions)

Q26. During password recovery, which configuration register is used?

A. 0x2102
B. 0x2142
C. 0x2100
D. 0x2000

Q27. Why is Telnet considered insecure?

A. Uses TCP
B. No authentication
C. Data transmitted in plain text
D. Uses default port

Q28. Which command sequence enables SSH access?

A. hostname + ip domain-name + crypto key generate rsa
B. ip name-server + enable password
C. interface vty + transport input ssh
D. router ospf + crypto key

Q29. Which debug command is most CPU intensive?

A. debug ip packet
B. debug arp
C. debug interface
D. debug ip routing

Q30. What is the purpose of the AUX port?

A. LAN access
B. Modem-based remote access
C. Routing updates
D. Packet forwarding

Q31. Which IOS command stops all debugging output?

A. no debug
B. debug off
C. undebug all
D. clear debug

Q32. Which method provides the highest router access security?

A. Telnet
B. Console
C. AUX
D. SSH

Q33. Which protocol resolves router names during ping tests?

A. ICMP
B. DNS
C. ARP
D. SNMP

Q34. Why should debug commands be used cautiously?

A. They modify configuration
B. They increase RAM usage
C. They can overload CPU
D. They stop routing

Q35. Which command shows the router uptime?

A. show processes
B. show version
C. show clock
D. show ip route

Q36. Which access line supports simultaneous remote sessions?

A. Console
B. AUX
C. VTY
D. Loopback

Q37. Which IOS feature maps IP addresses to hostnames statically?

A. DNS
B. ip host
C. ARP
D. DHCP

Q38. Which protocol assists in path discovery during troubleshooting?

A. ARP
B. ICMP
C. SNMP
D. FTP

Q39. Which command reloads the router?

A. restart
B. reboot
C. reload
D. shutdown

Q40. Which statement best describes router management?

A. Only physical access is allowed
B. Management is done only via GUI
C. Router can be managed locally and remotely
D. Router management is automatic