

## **📖 EASY (10 Questions)**

Q1. Which routing protocol is based on hop count?

- A. OSPF
- B. EIGRP
- C. RIP
- D. IS-IS

Q2. What is the maximum hop count allowed in RIP?

- A. 10
- B. 15
- C. 16
- D. 255

Q3. Which routing protocol is Cisco proprietary?

- A. RIP
- B. OSPF
- C. EIGRP
- D. IS-IS

Q4. Which algorithm is used by OSPF?

- A. Bellman-Ford
- B. DUAL
- C. Dijkstra
- D. Path Vector

Q5. Which routing protocol sends updates every 30 seconds?

- A. OSPF
- B. EIGRP
- C. RIP
- D. BGP

Q6. Which EIGRP metric component represents delay?

- A. K1
- B. K2
- C. K3
- D. K4

Q7. Which protocol is classless by default?

- A. RIP v1
- B. IGRP
- C. EIGRP
- D. RIPv1

Q8. Which routing protocol uses multicast address 224.0.0.10?

- A. RIP
- B. OSPF
- C. EIGRP
- D. BGP

Q9. Which routing protocol supports areas?

- A. RIP
- B. IGRP
- C. EIGRP
- D. OSPF

Q10. Which protocol uses Hello packets?

- A. RIP
- B. OSPF
- C. Both OSPF and EIGRP
- D. IGRP

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## ☐ **MEDIUM (15 Questions)**

Q11. Which EIGRP algorithm ensures loop-free routing?

- A. Bellman-Ford
- B. SPF
- C. DUAL
- D. Path Vector

Q12. Which OSPF area must all other areas connect to?

- A. Area 1
- B. Area 2
- C. Area 10
- D. Area 0

Q13. Which RIP version supports authentication?

- A. RIP v1
- B. RIP v2
- C. Both
- D. None

Q14. Which EIGRP metric uses bandwidth and delay by default?

- A. Composite metric
- B. Hop count
- C. Cost
- D. Path metric

Q15. Which routing protocol sends partial updates?

- A. RIP
- B. OSPF
- C. EIGRP
- D. IGRP

Q16. Which OSPF packet type establishes neighbor relationships?

- A. LSA
- B. Hello
- C. DBD
- D. LSU

Q17. Which protocol supports unequal-cost load balancing?

- A. RIP
- B. OSPF
- C. EIGRP
- D. IGRP

Q18. Which RIP version uses multicast updates?

- A. RIP v1
- B. RIP v2
- C. Both
- D. None

Q19. Which OSPF router connects different areas?

- A. Internal Router
- B. Backbone Router
- C. ABR
- D. ASBR

Q20. Which EIGRP table stores successor and feasible successor?

- A. Routing table
- B. Neighbor table
- C. Topology table
- D. ARP table

Q21. Which protocol uses autonomous system numbers internally?

- A. RIP
- B. OSPF
- C. EIGRP
- D. IGRP

Q22. Which OSPF LSA type describes router links?

- A. Type 1
- B. Type 2
- C. Type 3
- D. Type 5

Q23. Which routing protocol converges fastest?

- A. RIP
- B. IGRP
- C. EIGRP
- D. Static routing

Q24. Which command enables EIGRP on a router?

- A. router ospf
- B. router rip
- C. router eigrp
- D. ip eigrp

Q25. Which OSPF metric is used for path selection?

- A. Hop count
  - B. Delay
  - C. Cost
  - D. Reliability
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## **HARD (15 Questions)**

Q26. Which EIGRP condition allows a feasible successor?

- A.  $AD < FD$
- B.  $FD < AD$
- C. Metric equality
- D. Same hop count

Q27. Which OSPF area type blocks external routes?

- A. Backbone area
- B. Standard area
- C. Stub area
- D. Transit area

Q28. Which RIP limitation affects scalability?

- A. Authentication
- B. Hop count limit
- C. Metric calculation
- D. CIDR support

Q29. Which EIGRP table is consulted first during routing?

- A. Neighbor table
- B. Topology table
- C. Routing table
- D. Interface table

Q30. Which OSPF network type elects a DR and BDR?

- A. Point-to-point
- B. Broadcast
- C. Point-to-multipoint
- D. Loopback

Q31. Which protocol uses split horizon and poison reverse?

- A. OSPF
- B. EIGRP
- C. RIP
- D. IS-IS

Q32. Which OSPF router redistributes external routes?

- A. ABR
- B. Backbone router
- C. ASBR
- D. Internal router

Q33. Which EIGRP feature reduces query scope?

- A. Auto-summary
- B. Stub routing
- C. Split horizon
- D. Poison reverse

Q34. Which routing protocol uses triggered updates?

- A. RIP
- B. OSPF
- C. EIGRP
- D. BGP

Q35. Which OSPF LSA type is used for external routes?

- A. Type 1
- B. Type 2
- C. Type 3
- D. Type 5

Q36. Which EIGRP K-value is set to zero by default?

- A. K1
- B. K2
- C. K3
- D. K5

Q37. Which OSPF feature improves scalability?

- A. Hop count
- B. Areas
- C. Hello timers
- D. SPF delay

Q38. Which routing protocol uses UDP port 520?

- A. RIP
- B. OSPF
- C. EIGRP
- D. BGP

Q39. Which EIGRP route is actively used for forwarding?

- A. Feasible successor
- B. Advertised route
- C. Successor
- D. Backup route

Q40. Which routing protocol is most suitable for large enterprise networks?

- A. RIP
- B. IGRP
- C. EIGRP / OSPF
- D. Static routing