

# Questions on OSPF

Total points 36/50 ?

✓ 45. What is the default Router Priority value?

1/1

- ☐ a) 0
- ☒ b) 1
- ☐ c) 100
- ☐ d) 255



✓ 49. Which command displays OSPF interface parameters?

1/1

- ☒ a) show ip ospf interface
- ☐ b) show ip ospf neighbor
- ☐ c) show ospf details
- ☐ d) show interfaces ospf



✓ 36. Which command changes OSPF interface cost?

1/1

- ☒ a) ip ospf cost <value>
- ☐ b) ospf cost set
- ☐ c) set metric <value>
- ☐ d) bandwidth <value>



Name \*

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✓ 27. Which LSA is generated by the DR in a multi-access network? 1/1

- ☐ a) Type 1
- ☒ b) Type 2
- ☐ c) Type 3
- ☐ d) Type 5



✓ 22. What is used to prevent OSPF updates on a specific interface? 1/1

- ☒ a) passive-interface
- ☐ b) shutdown
- ☐ c) no ospf update
- ☐ d) link-silent



✓ 1. Which protocol does OSPF use to discover neighbors? 1/1

- ☐ a) TCP
- ☐ b) UDP
- ☐ c) IP
- ☒ d) Hello packets



✗ 18. Which OSPF neighbor state indicates full adjacency?

0/1

- ☐ a) Init
- ☒ b) 2-Way
- ☐ c) Full
- ☐ d) Exchange

✗

✗ 10. What is the default Dead interval on a broadcast OSPF network?

0/1

- ☐ a) 20 sec
- ☐ b) 30 sec
- ☒ c) 40 sec
- ☐ d) 40 sec

✗

✓ 8. Which algorithm does OSPF use for path calculation?

1/1

- ☐ a) Bellman-Ford
- ☒ b) Dijkstra
- ☐ c) SPF
- ☐ d) RIP

✓

✓ 19. What happens if OSPF priority is set to 0?

1/1

- ☒ a) Router never becomes DR or BDR
- ☐ b) Router always DR
- ☐ c) No adjacency
- ☐ d) Faster convergence



✗ 50. What happens if OSPF Router IDs are the same?

0/1

- ☐ a) OSPF fails
- ☒ b) Both routers work fine
- ☐ c) DR/BDR conflict only
- ☐ d) Load sharing only



✓ 25. Which command enables OSPF on a router?

1/1

- ☒ a) router ospf <process-id>
- ☐ b) enable ospf
- ☐ c) ospf start
- ☐ d) ip ospf run



✓ 39. How does OSPF handle equal-cost paths?

1/1

- ☐ a) Chooses one
- ☒ b) Uses load balancing
- ☐ c) Drops packets
- ☐ d) Chooses random



✗ 32. OSPF uses which transport protocol?

0/1

- ☒ a) TCP
- ☐ b) UDP
- ☐ c) IP
- ☐ d) ICMP



✗ 30. Which LSA is used in NSSA (Not So Stubby Area)?

0/1

- ☐ a) Type 6
- ☐ b) Type 7
- ☐ c) Type 8
- ☐ d) Type 9

✗ 31. What is the maximum OSPF metric value?

0/1

- ☐ a) 65,535
- ☐ b) 16
- ☐ c) 1,000,000
- ☐ d) 4,294,967,295

✓ 9. What is the default Hello interval on a broadcast OSPF network?

1/1

- ☐ a) 5 sec
- ☒ b) 10 sec
- ☐ c) 30 sec
- ☐ d) 60 sec



✓ 23. In OSPF, what is a stub area?

1/1

- ☒ a) Area that blocks external routes
- ☐ b) Area with no routers
- ☐ c) Backbone area
- ☐ d) Area without DR



✓ 40. What is the command to advertise a network in OSPF?

1/1

- ☒ a) network <ip> <wildcard> area <id>
- ☐ b) ospf add network
- ☐ c) router-id <ip>
- ☐ d) redistribute network



✗ 37. Which command verifies OSPF process ID?

0/1

- ☐ a) show ip protocols
- ☐ b) show ospf process
- ☒ c) show ip ospf process
- ☐ d) show routing



✓ 29. Which LSA carries external routes redistributed into OSPF?

1/1

- ☐ a) Type 3
- ☐ b) Type 4
- ☒ c) Type 5
- ☐ d) Type 7



✗ 35. What is the OSPF cost of a 100 Mbps FastEthernet link?

0/1

- ☒ a) 1
- ☐ b) 10
- ☐ c) 100
- ☐ d) 1000

✗

✓ 42. Which router redistributes external routes into OSPF?

1/1

- ☐ a) ABR
- ☒ b) ASBR
- ☐ c) DR
- ☐ d) BDR

✓

✓ 33. What OSPF state comes right after 'Init'?

1/1

- ☐ a) Down
- ☒ b) 2-Way
- ☐ c) Exchange
- ☐ d) Loading

✓



✓ 21. What command displays OSPF neighbor information?

1/1

- ☒ a) show ip ospf neighbor
- ☐ b) show ospf adj
- ☐ c) show ip route ospf
- ☐ d) show ospf neighbor detail



✓ 6. What metric does OSPF use to calculate the best path?

1/1

- ☐ a) Hop count
- ☒ b) Bandwidth
- ☐ c) Delay
- ☐ d) Reliability



✓ 24. What is a totally stubby area?

1/1

- ☒ a) Blocks external and inter-area routes
- ☐ b) Allows all LSAs
- ☐ c) Backbone area
- ☐ d) DR-only area



✓ 28. Which LSA is generated by an ABR?

1/1

- ☐ a) Type 2
- ☒ b) Type 3
- ☐ c) Type 4
- ☐ d) Type 5



✓ 13. What is the default OSPF Router ID if not manually set?

1/1

- ☒ a) Highest IP of loopback
- ☐ b) Lowest IP
- ☐ c) Highest active interface IP
- ☐ d) Random number



✓ 7. What type of protocol is OSPF?

1/1

- ☐ a) Distance vector
- ☐ b) Path vector
- ☒ c) Link-state
- ☐ d) Hybrid



✓ 34. What command shows OSPF LSDB?

1/1

- ☒ a) show ip ospf database
- ☐ b) show ospf routes
- ☐ c) show ip ospf detail
- ☐ d) show ospf config



✓ 3. What is the administrative distance of OSPF?

1/1

- ☐ a) 90
- ☐ b) 100
- ☒ c) 110
- ☐ d) 120



✗ 5. What is the multicast address for OSPF DR/BDR routers?

0/1

- ☐ a) 224.0.0.1
- ☒ b) 224.0.0.5
- ☐ c) 224.0.0.6
- ☐ d) 224.0.0.9



✓ 20. Which of the following is a valid OSPF network type?

1/1

- ☐ a) Broadcast
- ☐ b) NBMA
- ☐ c) Point-to-point
- ☒ d) All of the above



✗ 11. Which OSPF packet type is used to describe the entire topology?

0/1

- ☐ a) Hello
- ☐ b) LSA
- ☐ c) LSU
- ☒ d) DBD



✗ 46. What type of OSPF message is used to request missing LSAs?

0/1

- ☐ a) DBD
- ☐ b) LSR
- ☒ c) LSU
- ☐ d) LSAck



✓ 43. How often are OSPF Hello packets sent on a point-to-point link?

1/1

- ☐ a) 5 sec
- ☒ b) 10 sec
- ☐ c) 30 sec
- ☐ d) 60 sec



✓ 2. Which layer of the OSI model does OSPF operate at?

1/1

- ☒ a) Network
- ☐ b) Transport
- ☐ c) Data Link
- ☐ d) Application



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✓ 12. What is the process ID used for in OSPF configuration?

1/1

- ☐ a) Identifies area
- ☒ b) Identifies OSPF instance
- ☐ c) Identifies router ID
- ☐ d) Identifies interface



✓ 16. Which router becomes the DR in an OSPF network?

1/1

- ☐ a) Lowest priority
- ☒ b) Highest priority
- ☐ c) Lowest Router ID
- ☐ d) Random router



✗ 17. What is the default OSPF priority on an interface?

0/1

- ☐ a) 0
- ☐ b) 1
- ☐ c) 10
- ☒ d) 100



✓ 38. What is the default OSPF reference bandwidth?

1/1

- ☐ a) 10 Mbps
- ☒ b) 100 Mbps
- ☐ c) 1 Gbps
- ☐ d) 10 Gbps



✗ 44. Which OSPF area type doesn't allow external LSAs?

0/1

- ☒ a) Stub
- ☐ b) NSSA
- ☐ c) Totally Stubby
- ☐ d) All of the above

✗

✗ 4. Which multicast address is used by OSPF routers to send Hello packets?

0/1

- ☐ a) 224.0.0.1
- ☐ b) 224.0.0.5
- ☒ c) 224.0.0.6
- ☐ d) 224.0.0.9

✗

✓ 47. What command resets OSPF process?

1/1

- ☒ a) clear ip ospf process
- ☐ b) restart ospf
- ☐ c) reset ospf
- ☐ d) ospf clear

✓

✓ 48. Which statement is true about OSPF authentication?

1/1

- ☒ a) It can be configured per-area or per-interface
- ☐ b) It is not supported
- ☐ c) Only global
- ☐ d) Only plaintext



✓ 15. Which OSPF packet type is used to acknowledge received LSAs?

1/1

- ☐ a) Hello
- ☐ b) DBD
- ☐ c) LSR
- ☒ d) LSAck



✓ 41. Which router has connections to multiple OSPF areas?

1/1

- ☒ a) ABR
- ☐ b) ASBR
- ☐ c) DR
- ☐ d) BDR





✓ 26. Which OSPF LSA type describes router links?

1/1

- ☒ a) Type 1
- ☐ b) Type 2
- ☐ c) Type 3
- ☐ d) Type 5



✓ 14. Which OSPF area is known as the backbone area?

1/1

- ☐ a) Area 1
- ☐ b) Area 51
- ☒ c) Area 0
- ☐ d) Area 10



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