

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



Organization / Institute Name *

Thakurgaon Polytechnic Institute

✓ 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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