# Online Examinations (Even Sem/Part-I/Part-II Examinations 2020 - 2021

Course Name - - Routing Professional Course Code - MNCS203

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<u>DIP.ME</u>

\_ .. . \_ \_

- PGDHM
- MBA
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- M.TECH(CSE)
- M.A.(JMC)
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- M.SC.(MB)
- MCA
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- M.SC.CS)
- M.SC.(ANCS)
- M.SC.(MM)
- B.A.(Eng)

Answer all the questions. Each question carry one mark.

9. 1.The Open Shortest Path First(OSPF) protocol is an intra-domain routing protocol based on ...... routing.

- distance vector
- \_\_\_\_ path vector
- link state
- on distance vector

10. 2.In ...... the router forwards the receive packet through only one of its interfaces.

Mark only one oval.

unicasting

- broadcasting
- multicasting
- point to point
- 11. 3.In which layer of OSI model Router works?

Mark only one oval.

- Layer 3 Device
- Layer 2 Device
- Dayer 6 Device
- Layer 7 Device
- 12. 4.EIGRP can support \_\_\_\_\_

- VLSM/subnetting
- Unequal cast load balancing
- Auto summary
- All of these

13. 5.Where are EIGRP successor routes stored?

Mark only one oval.

- In the routing table only
- ln the topology table only
- In the neighbor table only
- In the routing table and the topology table
- 14. 6.Open Shortest Path First (OSPF) is also called as \_\_\_\_\_

## Mark only one oval.

- Link state protocol
- Routing information protocol
- Error-correction protocol
- All of these
- 15. 7.The computation of the shortest path in OSPF is usually done by \_\_\_\_\_

- Bellman-ford algorithm
- Dijkstra's algorithm
- Routing information protocol
- Distance vector routing

16. 8.The EIGRP metric values include:

Mark only one oval. Delay MTU Bandwidth All of these 17.

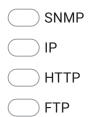
9.EIGRP uses the \_\_\_\_\_\_ algorithm for finding shortest path.

Mark only one oval.

| $\subset$ | SPF      |
|-----------|----------|
| $\subset$ | Linkstat |
| (         | DUAL     |

Dikstraalgo

10.Which of the following is used to manage and monitor the network? 18.



19. 11.What kind of BGP session is established between two routers that are adjacent, but in two different Autonomous Systems?

Mark only one oval.

External BGP (eBGP)

- Default (dBGP)
- Internal BGP (iBGP)
- Direct
- 20. 12.Which of the following is NOT a type of message that a BGP common Header will contain?

Mark only one oval.

🔵 OPEN message

ROUTEBUSY message

UPDATE message

- KEEPALIVE message
- 21. 13.Which BGP neighbor state is the proper state for normal BGP neighbor operations?

Mark only one oval.

- \_\_\_\_ active
- idle

🔵 open confirm

established

22. 14.In the output of the show ip bgp command, what does the "s†in front of the line for a network mean?

Mark only one oval.

summarized network

- suppressed network

- 23. 15.Which description applies to the next-hop attribute?

# Mark only one oval.

- well-known mandatory
- Optional transitive
- well-known discretionary
- Optional nontransitive
- 24. 16.Which path will BGP prefer when using the weight attribute?

- higher weight
- default weight
- lower weight
- None of these

25. 17. Which of the following is not an IGP?

Mark only one oval.

RIPv2

- \_\_\_\_ IPv4
- OSPF
- 26. 18.In a GLBP network, who is responsible for the arp request?

Mark only one oval.

- AVF(Active Virtual Forwaders)
- Active Router
- AVG(Active Virtual gateway)
- Standby Router
- 27. 19.Which standards-based First Hop Redundancy Protocol is a Cisco supported alternative to Hot Standby Router Protocol?

- VRRP
- TFTP
- GLBP

28. 20.A bridge handles frames at which of the following layers of the OSI model?

Mark only one oval.

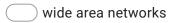
Data Link
Transport
Session
Network

29. 21.The term \_\_\_\_\_\_ refers to which node or nodes in the network are responsible for the routing decision.

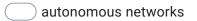
Mark only one oval.

- decision place
- node place
- routing place
- switching place
- 30. 22.For purposes of routing, the Internet is divided into \_\_\_\_\_.

Mark only one oval.



🔵 local area networks



autonomous system

31. 23.In \_\_\_\_\_\_ the router forwards the receive packet through only one of its interfaces.

Mark only one oval.

unicasting

- broadcasting
- multicasting
- point to point
- 32. 24.EIGRP is a routing Protocol design by Cisco. (Yes/No)?

Mark only one oval.

| $\bigcirc$ | Yes          |
|------------|--------------|
| $\bigcirc$ | No           |
| $\bigcirc$ | May be       |
| $\bigcirc$ | Doesn't know |

33. 25.What is route poisoning?

Mark only one oval.

It sends back the protocol received from a router as a poison pill, which stops the regular updates. The use of variable length subnet masks is permitted

It is information received from a router that can't be sent back to the originating router.RIPv2 supports classless routing

It prevents regular update messages from reinstating a route that has just come up

It describes when a router sets the metric for a downed link to infinity

#### 34. 26.In OSPF, which protocol is used to discover neighbour routers automatically?

Mark only one oval.

Link state protocol

- Routing information protocol
- Error-correction protocol
- Hello protocol

#### 35. 27.In OSPF header, which field is used to detect errors in the packet?

Mark only one oval.

- \_\_\_\_ Туре
- Authentication type

📃 Area ID

🔵 Checksum

36. 28.With which network type will OSPF establish router adjacencies but not perform the DR/BDR election process?

- Point-to-point
- Broadcast multi-access
- 🔵 Backbone area 0
- Non-broadcast multi-access

37. 29.Which of the following protocols support VLSM, summarization, and discontiguous networking?

Mark only one oval.

| EIGRP            |
|------------------|
| BGP              |
| HSRP             |
| All of the above |

38. 30.Which of the following network types have a designated router and a backup designated router assigned?

# Mark only one oval.

| Broadcast |
|-----------|
|-----------|

- Unicast
- Point-to-point
- NBMA point-to-point
- 39. 31. Which of the following is not applicable for IP?

- Error reporting
- 📃 Datagram format
- Handle addressing conventions
- Packet handling conventions

## 40. 32.The data field can carry which of the following?

Mark only one oval.

TCP segemnt

ICMP messages

UDP segment

None of the above

41. 33.In classless addressing, there are no classes but addresses are still granted in

Mark only one oval.

IPs

Blocks

Sizes

42. 34.What is the purpose of Split Horizon?

Mark only one oval.

It prevents the regular update messages from reinstating a route that has gone down

Informs all neighbor routers that two routes exist

Information received on an interface cannot be sent back out the same interface

Tells the router the destination is unreachable

43. 35.What is true about frame-relay DLCI?

Mark only one oval.

- DLCI represents a single physical circuit
- DLCI identifies a logical connection between DTE devices
- DLCI is optional in all frame-relay networks
- DLCI is used to tag the beginning of a frame with VLAN information
- 44. 36.Which of the following is true with respect to BGP routing?

## Mark only one oval.

- Routing decisions are made based on number of hops.
- Routing decisions are made based on Tics
- Routing decisions are made based on metrics
- Routing decisions are made based on network Policy.
- 45. 37. Which of the following statements is true with respect BGP?

Mark only one oval.

Any two routers that have been connected and supposed to make TCP connection in order to exchange BGP routing information are called peers, or neighbors.

Any two routers that have formed a TCP connection in order to exchange BGP routing information are called peers, or neighbors.

- Any two physically adjacent routers are called peers, or neighbors.
  - Any routers belonging to the same AS are called peers, or neighbors.

#### 46. 38.On what does BGP base the selection of the best path?

Mark only one oval.

🔵 Speed

- Number of routers to reach a destination network
- AS routing policy
- Bandwidth plus delay
- 47. 39.Which condition is valid reasons to run BGP in an AS?

# Mark only one oval.

- The AS is an ISP
- Path and packet flow manipulation is required in this AS
- The AS has only a single connection to another AS
- You have a limited understanding of BGP routing and route filtering

## 48. 40.Which characteristic is true for BGP?

- Supports VLSM
- 🔵 is an IGP
- 🔵 is an Hybrid
- is not used for routing between autonomous systems

49. 41. Which protocol does BGP use?

Mark only one oval.

- UDP port 520
- IP protocol number 88
- TCP port 179
- IP protocol number 89
- 50. 42. Which BGP message is sent when an error condition is detected?

#### Mark only one oval.

- 🔵 BGP update message
- BGP open message
- BGP keepalive message
- BGP notification message
- 51. 43.What is the common way to perform multihoming?

- Each ISP passes only a default route to the AS
- Each ISP passes selected provider-owned routes but no default route to the AS.
- Each ISP passes a static route and provider-owned specific routes to the AS
- Each ISP passes single route to the AS.

52. 44.By default, which is the condition for routers to be EBGP neighbors? (Choose two.)

Mark only one oval.

- No direct connection
- In different autonomous systems
- 📃 In the same AS
- Running an IGP between them to establish an adjacency
- 53. 45.Which command indicates to a BGP router whether an IP address belongs to an IBGP or an EBGP neighbor?

## Mark only one oval.

neighbor {ip-address | peer-group-name} shutdown

neighbor {ip-address | peer-group-name} remote-as autonomous-system

neighbor {ip-address | peer-group-name} update-source interface-type interfacenumber

neighbor {ip-address | peer-group-name} next-hop-self

54. 46.Which one of these BGP network statements is valid?

- network 199.199.199 mask 255.255.255.0
- network 191.200.100.0
- network 200.100.50.0

55. 47.Which state indicates that an open message has been sent but a reply has not been received from the neighbor in more than 5 seconds?

Mark only one oval.

| $\bigcirc$ | active       |
|------------|--------------|
| $\bigcirc$ | established  |
| $\bigcirc$ | idle         |
| $\bigcirc$ | open confirm |

56. 48.Which command resends the routing table without resetting the TCP session and flags routes that the neighbor, 192.168.200.1, will not see anymore as withdrawals? (You should use this command if the outbound policy of a BGP router has changed.)

Mark only one oval.

\_\_\_\_\_ clear ip bgp 192.168.200.1

📃 clear ip bgp 192.168.200.1 soft in

🔵 clear ip bgp \*

\_\_\_\_ clear ip bgp 192.168.200.1 soft out=

57. 49.Which command sets the next-hop address to be the source IP address of the update when advertising to a BGP neighbor?

Mark only one oval.

\_\_\_\_\_ neighbor {ip-address | peer-group-name} shutdown

neighbor {ip-address | peer-group-name} remote-as autonomous-system

neighbor {ip-address | peer-group-name} update-source interface-type interfacenumber

\_\_\_\_\_ neighbor {ip-address | peer-group-name} next-hop-self

## 58. 50.Which description applies to the AS path attribute?

Mark only one oval.

- well-known mandatory
- optional transitive
- well-known discretionary
- optional nontransitive
- 59. 51. Which description applies to the MED attribute?

Mark only one oval.

- well-known mandatory
- \_\_\_\_ optional transitive
- well-known discretionary
- \_\_\_\_\_ optional nontransitive
- 60. 52.BGP, by default, will load-balance across how many paths?

- 2
- 6

61. 53.Which command is used within a route map to change the local preference value?

Mark only one oval.

- bgp default local-preference value
- 🔵 set local-preference value
- default local-preference value
- set metric value
- 62. 54. Which of the following BGP types runs outside of an AS?

Mark only one oval.

- oBGP
- eBGP
- iBGP
- 🔵 xBGP
- 63. 55.When an AS must traverse another AS to get to its destination, the traversed AS is called which of the following?

- Complete AS
- Transit AS
- Forwarding AS
- Transistor AS

64. 56. How many entry and exit points can be found in a stub network?

Mark only one oval.

| $\square$ | Five |
|-----------|------|
| $\square$ | Two  |
| $\square$ | Four |
| $\square$ | One  |

65. 57. Which of the following fields is not found in a BGP common header?

Mark only one oval.

| Marker  |
|---------|
| Version |
| CLength |
| Туре    |

66. 58.Which protocol specified by RFC 2281 provides network redundancy for IP networks, ensuring that user traffic immediately and transparently recovers from first-hop failures in network edge devices or access circuits?

- STP

67. 59.Regarding high availability, with the MAC address 0000.0c07.ac03, what does the "03†represent?

Mark only one oval.



- The HSRP group number
- The type of encapsulation
- The active router number
- 68. 60.Which value to use in HSRP protocol election process?

Mark only one oval.



priority

- 🔵 virtual IP address
- 🔵 router ID

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