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

Course Name - Switching Professional
Course Code - MNCS402

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Answer all the questions. Each question carry one mark.

9.   1. How many distribution switches should be built into each switch block?

Mark only one oval.

○ 1

○ 2

○ 4

○ 8

10. 2. In a properly designed hierarchical network, a broadcast from one PC is confined to which one of the following?

Mark only one oval.

- ⚪ One access layer switch
- ⚪ Option 2
- ⚪ One switch block
- ⚪ The entire campus network

11. 3. A hierarchical network's distribution layer aggregates which of the following?

Mark only one oval.

- ⚪ Core switches
- ⚪ Broadcast domains
- ⚪ Routing updates
- ⚪ Access layer switches

12. 4. End-user PCs should be connected into which of the following hierarchical layers?

Mark only one oval.

- ⚪ Distribution layer
- ⚪ Common layer
- ⚪ Access layer
- ⚪ Core Layer

13.　5. What is a VLAN primarily used for

Mark only one oval.

- ○ To segment a collision domain
- ○ To segment a broadcast domain
- ○ To segment an autonomous system
- ○ To segment a spanning-tree domain

14.　6. Where does a broadcast domain exist in a switched network?

Mark only one oval.

- ○ On a single switch port
- ○ Across all switch ports
- ○ On a single VLAN
- ○ Option 4

15.　7. Access list rules are compiled as TCAM entries. When a packet is matched against an access list, in what order are the TCAM entries evaluated?

Mark only one oval.

- ○ Sequentially in the order of the original access list
- ○ Numerically by the access list number
- ○ Alphabetically by the access list name.
- ○ All entries are evaluated in parallel

16.   8. What size are the mask and pattern fields in a TCAM entry?

Mark only one oval.

◯ 64 bits

◯ 128 bits

◯ 134 bits

◯ 168 bits

17.   9. Which answer describes multilayer switching with CEF?

Mark only one oval.

◯ The first packet is routed and then the flow is cached

◯ The switch supervisor CPU forwards each packet.

◯ The switching hardware learns station addresses and builds a routing database.

◯ A single database of routing information is built for the switching hardware.

18.   10. Access list contents can be merged into which of the following?

Mark only one oval.

◯ CAM table

◯ TCAM table

◯ FIB table

◯ ARP table

19.   11. What does a switch do if a MAC address cannot be found in the CAM table?

Mark only one oval.

◯ The frame is forwarded to the default port

◯ The switch generates an ARP request for the address.

◯ The switch floods the frame out all ports (except the receiving port)

◯ The switch drops the frame

20.   12. Which one of these commands can enable Power over Ethernet to a switch interface?

Mark only one oval.

◯ inline power enable

◯ inline power on

◯ power inline on

◯ power inline auto

21.   13. Which one of the following statements is true about a Catalyst switch?

Mark only one oval.

◯ Neither CDP nor LLDP are enabled by default.

◯ CDP is enabled and LLDP is disabled by default

◯ CDP is disabled and LLDP is enabled by default

◯ Both CDP and LLDP are enabled by default.

22.   14. Which of the following show interface output information can you use to diagnose a switch port problem?

Mark only one oval.

- ( ) Port state
- ( ) Port speed
- ( ) Input errors
- ( ) All answers are correct

23.   15. Assume that you have just entered the configure terminal command. You want to configure the speed and duplex of the first 10/100/1000 twisted-pair Ethernet interface on the first Cisco Catalyst switch stack member to 1-Gbps full-duplex mode. Which one of these commands should you enter first?

Mark only one oval.

- ( ) speed 1000 mbps
- ( ) speed 1000
- ( ) interface gigabitethernet 1/0/1
- ( ) interface gigabit ethernet 1/0/1

24.   16. Which of the following cannot be automatically determined and set if the far end of a connection does not support autonegotiation?

Mark only one oval.

- ( ) Link speed
- ( ) Link duplex mode
- ( ) Link media type
- ( ) MAC address

25. 17. A VLAN is which of the following?

Mark only one oval.

◯ Collision domain

◯ Spanning-tree domain

◯ Broadcast domain

◯ VTP domain

26. 18. Which one of the following switch functions is needed to pass data between two PCs, each connected to a different VLAN?

Mark only one oval.

◯ Layer 2 switch

◯ Layer 3 switch

◯ Trunk

◯ Tunnel

27. 19. Which of the following is a standardized method of trunk encapsulation?

Mark only one oval.

◯ 802.1d

◯ 802.1Q

◯ 802.3z

◯ 802.1a

28.   20. Which of these protocols dynamically negotiates trunking parameters?

Mark only one oval.

◯ PAgP

◯ STP

◯ CDP

◯ DTP

29.   21. Which of the following incorrectly describes a native VLAN?

Mark only one oval.

◯ Frames are untagged on an 802.1Q trunk

◯ Frames are untagged on an ISL trunk.

◯ Frames can be interpreted by a nontrunking host

◯ The native VLAN can be configured for each trunking port.

30.   22. Which VLANs are allowed on a trunk link by default ?

Mark only one oval.

◯ None

◯ Only the native VLAN

◯ All active VLANs

◯ Only negotiated VLANs

31.   23. What command configures an IP phone to use VLAN 9 for voice traffic?

Mark only one oval.

○ switchport voice vlan 9

○ switchport voice-vlan 9

○ switchport voice 9

○ switchport voip 9

32.   24. A switch in VTP transparent mode can do which one of the following?

Mark only one oval.

○ Create a new VLAN

○ Only listen to VTP advertisements

○ Send its own VTP advertisements

○ Cannot make VLAN configuration changes

33.   25. Which one of the following is a valid VTP advertisement?

Mark only one oval.

○ Triggered update

○ VLAN database

○ Subset

○ Domain

34.   26. Which one of the following VTP modes does not allow any manual VLAN configuration changes?

Mark only one oval.

    ◯ Server

    ◯ Client

    ◯ Designated

    ◯ Transparent

35.   27. Which VLAN number is never eligible for VTP pruning?

Mark only one oval.

    ◯ 0

    ◯ 1

    ◯ 1000

    ◯ 1001

36.   28. If a VTP server is configured for VTP Version 2, what else must happen for successful VTP communication in a domain?

Mark only one oval.

    ◯ A VTP version 2 password must be set.

    ◯ All other switches in the domain must be version 2 capable.

    ◯ All other switches must be configured for VTP version 2

    ◯ The VTP configuration revision number must be reset.

37. 29. Which one of the following VTP modes does not allow any manual VLAN configuration changes ?

Mark only one oval.

○ Server

○ Client

○ Designated

○ Transparent

38. 30. If a switch has ten VLANs defined and active, how many instances of STP will run using PVST+ versus CST?

Mark only one oval.

○ 1 for PVST+, 1 for CST

○ 1 for PVST+, 10 for CST

○ 10 for PVST+, 1 for CST

○ 10 for PVST+, 10 for CST

39. 31. What is the default "hello" time for IEEE 802.1D

Mark only one oval.

○ 1 second

○ 2 second

○ 30 second

○ 60 second

40.   32. What mechanism is used to set STP timer values for all switches in a network?

Mark only one oval.

⬭ Configuring the timers on every switch in the network

⬭ Configuring the timers on the root bridge switch.

⬭ Configuring the timers on both primary and secondary root bridge switches

⬭ The timers cannot be adjusted.

41.   33. Configuration BPDUs are originated by which of the following?

Mark only one oval.

⬭ All switches in the STP domain

⬭ Only the root bridge switch

⬭ Only the switch that detects a topology change

⬭ Only the secondary root bridge when it takes over

42.   34. Which of these is one of the parameters used to elect a root bridge?

Mark only one oval.

⬭ Root path cost

⬭ Path cost

⬭ Bridge priority

⬭ BPDU revision number

43.   35. Which one of the following commands enables you to verify the current root
        bridge in VLAN 10?

Mark only one oval.

⚪ show root vlan 10

⚪ show root-bridge vlan 10

⚪ show spanning-tree vlan 10 root

⚪ show running-config

44.   36. Where should the STP UplinkFast feature be enabled?

Mark only one oval.

⚪ An access layer switch

⚪ A distribution layer switch

⚪ A core layer switch

⚪ All these answers are correct

45.   37. What network diameter value is the basis for the default STP timer calculations?

Mark only one oval.

⚪ 1

⚪ 3

⚪ 7

⚪ 9

46.   38. What command can change the path cost of interface Gigabit Ethernet 1/0/3 to
       a value of 8?

       Mark only one oval.

       ( ) spanning-tree path-cost 8

       ( ) spanning-tree cost 8

       ( ) spanning-tree port-cost 8

       ( ) spanning-tree gig 1/0/3 cost 8

47.   39. Which of these is the single most important design decision to be made in a
       network running STP?

       Mark only one oval.

       ( ) Removing any redundant links

       ( ) Making sure all switches run the same version of IEEE 802.1D

       ( ) Root bridge placement

       ( ) Making sure all switches have redundant links

48.   40. To reset switch ports that have been put into the errdisable mode by UDLD,
       which one of the following commands should you use?

       Mark only one oval.

       ( ) clear errdisable udld

       ( ) udld reset

       ( ) no udld

       ( ) show udld errdisable

49. 41. What must a switch do when it receives a UDLD message on a link?

Mark only one oval.

( ) Relay the message on to other switches

( ) Send a UDLD acknowledgment

( ) Echo the message back across the link

( ) Drop the message

50. 42. Which of the following features can actively test for the loss of the receive side of a link between switches?

Mark only one oval.

( ) POST

( ) BPDU

( ) UDLD

( ) STP

51. 43. Which of the following commands can enable STP Loop Guard on a switch port?

Mark only one oval.

( ) spanning-tree loop guard

( ) spanning-tree guard loop

( ) spanning-tree loop-guard

( ) spanning-tree loopguard enable

52. 44. Why is it important to protect the placement of the root bridge?

Mark only one oval.

◯ To keep two root bridges from becoming active

◯ To keep the STP topology stable

◯ So all hosts have the correct gateway

◯ So the root bridge can have complete knowledge of the STP topology

53. 45. Which of the following commands can you use to enable STP Root Guard on a switch port?

Mark only one oval.

◯ spanning-tree root guard

◯ spanning-tree root-guard

◯ spanning-tree guard root

◯ spanning-tree rootguard enable

54. 46. Which of the following features protects a switch port from accepting BPDUs when PortFast is enabled?

Mark only one oval.

◯ STP Loop Guard

◯ STP BPDU Guard

◯ STP Root Guard

◯ UDLD

55.   47. How many instances of STP are supported in the Cisco implementation of MST?

Mark only one oval.

○ 1

○ 16

○ 256

○ 4096

56.   48. Which code is used to set a Root Bridge?

Mark only one oval.

○ #switch(config)mst 1 root primary

○ #spanning-tree mst 1 primary root

○ #spanning-tree root mst 1 primary

○ #spanning-tree mst 1 root primary

57.   49. Which of the following is a feature of the VLAN hoping strategy?

Mark only one oval.

○ Attacker connects to access switch port

○ Attacker sends single-tagged frame

○ Switch must have an 802.1w trunk

○ Native VLAN differs from access VLAN

58.   50. Which command will place the switch in a mode so that it does not affect the
       VLAN database?

Mark only one oval.

( ) vtp mode server

( ) vtp mode client

( ) vtp mode transparent

( ) None of these

59.   51. Which is not a configuration option for SNMP?

Mark only one oval.

( ) Access lists

( ) Group

( ) Trap receiver

( ) Poll agent

60.   52. Which code is used to review the health or status of the EtherChannel bundle?

Mark only one oval.

( ) show interfaces gi0/24 etherchannel

( ) show etherchannel diagnostic

( ) show etherchannel 1 port-channel

( ) show etherchannel summary

61. 53. Which configuration setting is used to enable PAgP only if a PAgP device is detected?

Mark only one oval.

◯ Passive

◯ Auto

◯ Desirable

◯ Active

62. 54. What protocol can you use to advertise a subnet to all the other devices in a topology?

Mark only one oval.

◯ EIGRP

◯ DRP

◯ DHCP

◯ SVI

63. 55. What happens when an interface is shut off in a topology?

Mark only one oval.

◯ A loop is created within the topology

◯ The system automatically crashes

◯ All links to the switch are severed

◯ New paths will be searched for

64.   56. Which feature best describes NTP versions 3 or 4?

Mark only one oval.

⬭ NTPv4 does not use multicast messages

⬭ NTPv3 utilizes broadcast messages

⬭ NTPv3 greater security than NTPv4

⬭ IPv6 supports NTPv3 broadcast

65.   57. ou have configured three Layer 3 switches as VRRP virtual routers that are members of the same VRRP group. The switch that has been elected as the virtual router master is having some intermittent connectivity issues, so you disable VRRP on the switch while you troubleshoot the issue. Which command should you use to re-enable VRRP on this switch?

Mark only one oval.

⬭ vrrp priority

⬭ no vrrp preempt

⬭ vrrp ip

⬭ no vrrp shutdown

66.   58. Which command is used to disable CDP?

Mark only one oval.

⬭ show cdp

⬭ no cdp run

⬭ cdp enable

⬭ cdp run

67.   59. Which best describes the problem with unidirectional links?

Mark only one oval.

- ( ) Traffic flows in both directions
- ( ) All the ports go to forwarding state
- ( ) All the receiving ports are blocked
- ( ) Traffic flows in only one direction

68.   60. What is the cost of a 100 Mbps link?

Mark only one oval.

- ( ) 19
- ( ) 4
- ( ) 100
- ( ) 2

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