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CIT Answers

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1. What switching is supported on the 7500 series router with a VIP, that is not available without the VIP?
 - Process switching
 - Distributed Switching
 - Frame switching
 - VIP Switching

2. Which CCO utility is able to parse and display usable information from the output “Show stack” command?
 - Bug Navigator II
 - Stack Decoder
 - Stack Debugger
 - Stack Navigator

3. Name a product that can collect RMON information so engineers can Analyze it?
 - Netsys baseliner
 - Traffic Director
 - Network sniffer
 - VLAN Director

4. If performance on a VLAN is slow what is the cause? (choose all that apply)
 - Bad NetworkAdapter, or line module
 - Misconfigure VLAN encapsulation
 - Cable problem
 - Incompatible releases of the Cisco™ IOS major version number
 - Error setting for Full duplex or Half duplex
 - ATM MTU is fragmenting packets in LANE environment
 - Decoding encrypted frames is cause the router to slow down.
 - Somebody accidentally caused a static discharge

5. If you issue show IPX traffic and you get a bad hop count which of the following scenarios could be causing the error?
 - You have set incompatible frame types configured on server and router
 - You have a backdoor bridge between segments
 - You have more than 16 hops between IPX networks
 - Your SAP table is corrupt and is causing packet loops

6. If a CSE asks for the output of the show stack what is the error?
 - Software error
 - Hardware error
 - Cable problem
 - The CSE does not have a clue yet.

7. Which of the following is important to remember when troubleshooting fiber optic connections? (choose all that apply)
 - Cables not punched down correctly

- asymmetric connectivity
- attenuation over short distances
- proper shielding from interference

8. In the ISL 802.10 specification, packet tagging of an Ethernet frame is accomplished using three fields, for a total of 30 bytes. Which of the following are fields found in a valid Ethernet/ISL frame?

- FCS
- VTP identifier
- VLAN ID
- Port of Origin
- Destination MAC address
- ISL protocol version

9. In the following diagram which devices will show no CDP information? (choose all that apply)

- Cisco™ router configured as a bridge
- Wan Switch
- Cisco™ router on the other side of a frame relay network
- Cisco™ router connected via an ATM connection

10. What command do you use to show the current status of router? Including the date of Last reboot and the amount of RAM installed?

- Show running-config
- Show startup-config
- show version
- show controllers

11. Which of the following could cause a delay in STP forward delay?

- Avoid turning on multiple subinterfaces which could cause loops
- Do not use both IEEE and Digital bridging
- Configure a root bridge which is slow to converge

12. Which of the following Service Access Point Identifiers (SAPI) values are important to look for when viewing the output of a “debug isdn q921” command? (choose all that apply)

- SAPI 63 – Layer 2 management used for processes including TEI assignment
- SAPI 64 – Used for call control
- SAPI 65 – TEI negotiation parameters
- SAPI 3 – indication that the message type is layer 3 signaling (from Q.931)
- SAPI 0 – Indication that the message type is Layer 3 signaling (from Q.931)

13. What switching mode will the router use if you have debugging enabled?

- Store and forward switching
- Fast Switching
- Priority switching
- Process switching
- Distributing Switching

14. What command when executed in the proper context will cause debugging information to be displayed on a virtual terminal (non-console)?

- debug terminal
- terminal monitor
- logging ouptut terminal
- debug output vty 0 4

15. Which of the following answers can trigger and ISDN call to be placed?? (choose all that apply)
- From user exec "call destination-name" command
 - From privileged mode use "call destination-name"
 - DDR due to interesting traffic being seen
 - Incoming call, with the "collect" bit set to one.
16. You are troubleshooting a frame relay connection, when you put the CSU on both sides into loopback, and you see DLCI 0, and 1023 come active. When the circuit is not in loopback no DLCI's are active. What is the next step?
- Disable DLCI autodetect and map the DLCI's manually
 - Verify that one of the routers is using a cross over serial cable
 - check the encapsulation your using on both sides and make sure it is compatible
 - contact the service provider
17. What are the functions of the NetSYS tool?
- Taking samples of network performance for baselining
 - Network simulation/modeling software
 - performing advanced packet capture and decoding features
 - managing VLAN id's and configurations
18. Why is process switching slow?
- The encryption takes more time to decode the packet
 - Every packet must be examined, and no flow data is kept
 - The destination mac is processed at the end of the frame
 - The packet must be processed by each interface (incoming and outgoing)
19. On the frame-relay DTE/DCE which configuration element will the router autosense in IOS version 11.2 and later?
- DLCI
 - LMI
 - Encapsulation
 - Network type
20. What show command would you issue to show tech support routers condition?
- Show version
 - Show buffers
 - Show memory
 - Show tech-support
21. What is the proper pin-out for an ISDN RJ45 connector on the TE end?
- Pin1 - TX, Pin 2 - TX, Pin 3 - RX, Pin 4 -RX
 - Pin3 - TX, Pin 4 - RX, Pin 5 - RX, Pin 6 -TX
 - Pin 4 - RX, Pin 5 -TX
 - Pin 4 -TX, Pin 5 - RX
22. Cisco IOS provides commands to troubleshoot ISDN BRI layer 2 & 3. First enter the command _____ for Layer 2 debug and the enter command _____ for Layer 3 debug
- Debug isdn layer2 / debug isdn layer3
 - Show isdn datalink / show isdn transport
 - Debug isdn q219 / debug isdn q319
 - Debug isdn q921 / debug isdn q931
 -

23. When you issue a “show ipx traffic” you see that the router has a high number of packets with a “bad hop count” what does this mean? (choose 1)
- Your network is experiencing a count to infinity problem.
 - Packets were discarded because their hop count exceeded 16.
 - You have disabled split horizon, and packets are looping.
 - Packets are being received without the hop count field set.
24. If a CSE asks for the output of the show stack which of the following does he/she suspect? (choose all that apply)
- Misconfigure router
 - Bad Ram
 - Invalid boot prom
 - Bad Flash
 - Corrupt IOS image
25. What command can you use to view information specifically about the D channel of a BRI line?
- Show isdn status
 - Show controller bri
 - Show dialer 0
 - Show int bri 0
26. You are using a gigabit ethernet module on a Catalyst 2924M connected to a third party gigabit switch, during heavy loads you are continually having data overrun issues, what is the probable cause of this problem?
- The catalyst 2924M backplane can't handle the full bandwidth
 - You need to increase the amount of ram in the catalyst switch
 - You need to enable symmetric flow control
 - Ougi board says sunspots.
27. Which of the following are true about the ISL specification? (choose all that apply)
- It contains three fields, the header, the original packet and the FCS at the end
 - It is supported by Ethernet, FDDI, token ring and ATM
 - The virtual lan ID is a 15 bit number, which is different for each host on a vlan
 - ISL puts a CRC at the end of the frame which covers both the header and the encapsulated packet.
28. What command will send debugging output to the console?
- In console configuration mode, “Logging console level”
 - In line 0 configuration mode, “logging console level”
 - In global configuration mode, “logging console level”
29. Which command tells you if there are problems with the packets on the ISL trunk being either misconfigured or being sent/received on the wrong ISL subinterface.
- Show vlan status
 - Debug vlan ip
 - Debug vlan packet
 - Debug vlan isl
30. Which of the following devices will show no CDP information? (choose all that apply)
- A Cisco™ router configured as a bridge, with the statement “no ip route” in its configuration
 - An ATM interface on a Catalyst 5000
 - A router with the statement “no cdp enable” on all interfaces
 - A non Cisco™ switch
 - A serial interface with a misconfigured encapsulation

31. What command do you use to show current status of router? Date of Last reboot?

- Show memory
- Show status
- Show version
- Show running-config
- Show startup-information

32. What does the command "IPX ping-default Novell" accomplish? (choose all that apply)

- Configures the router to respond to all novell format IPX pings.
- Configures the router to send to novell format IPX pings by default.
- Sends an IPX ping packet of default size to the server name "Novell".
- Configures the router to ignore Cisco™ pings.

33. Which of the following is true about FDDI? (choose all that apply)

- FDDI supports both synchronous and asynchronous traffic management
- Synchronous bandwidth is allocated using an 8 level priority scheme
- Devices that can only use Asynchronous bandwidth are guaranteed to have their data delivered in a timely fashion.
- Synchronous devices may fully utilize the network, by using a reserved token

34. Which of the following are CCO bug toolkit resources?

- Bug Navigator
- Bug Finder
- Bug Alert
- Bug Hunter
- Bug Watcher
- Bug spray

Explanation: there are only three resources in the Bug Toolkit II which are Bug Navigator, Bug Alert, and Bug Watcher.

35. In Spanning Tree Protocol what happens to a port if no information has been received by the end of a forwarding delay?

- The port transitions to blocked state
- The port transitions to forward state
- The port transitions to learning state
- The port transitions to listening state
- The port becomes the root bridge

36. When you issue a "show ipx traffic" you see that the router has a high number of packets with a "packets pitched" what does this mean? (choose all that apply)

- A high number of packets were discarded due to high load
- The router has received its own broadcast many times
- Packets are being dropped due to their TTL being expired.
- You probably have a loop somewhere on your network
- The router is probably mistaking IPX for SPX
- You don't have the correct frame type selected.

37. What debug command would you issue to see if rip routing is operating properly?

- _____

38. On the frame-relay DTE/DCE which configuration element will the router autosense?

- Frame Type
- Encapsulation
- Network layer protocols (eg: ppp)

- LMI type

39. Which of the following scenarios could be solved by using an IPX static sap on a router?
(choose all that apply)

- You want clients to ignore broadcasts from certain servers
- You want clients to always use services of a particular server
- You want clients to login to one server, in case another server might be down
- You want to remove the additional load of distributing saps from a server.

40. What are the two ways to configure a VLAN?

- By using a NMP in the switch
- By using an RSM in the switch
- By attaching a route to a VLAN trunking port using 802.1Q encapsulation
- By attaching a router to a VLAN trunking port using ISL encapsulation

41. If a VLAN is slow or non-operational, which of the following are possible causes of the problem?

- Incorrect VLAN trunking protocol is configured
- Incorrect encapsulation on the VLAN

42. Which of the following Cisco™ products can collect RMON information so engineers can analyze it later?

- Vlan director
- TrafficDirector
- CiscoWorks for Switched Internetworks Campus
- CiscoWorks 2000
- Netsys baseliner

43. Which utility performs decodes of a stack trace (show stack) and may be useful for Cisco™ TAC support?

- Bug navigator II
- Troubleshooting Assistant
- Stack Decoder
- Management Toolkit

44. What type of switching is supported on the 7500 series router with a VIP installed?

- Priority switching
- Fast switching
- Weighted fair switching
- Distributed switching
- ASIC based switching

45. One way to check why line protocol Frame Relay is down, is to check for timing problems with myseq & myseen keepalive events, command to show:

- debug serial interface
- show interface serial
- show frame relay lmi
- debug frame-relay pvc

46. What is the true statement about embedded RMON Agent & SwitchProbe

- functions in Catalyst software
- SPAN is option of switch Probe function
- functions use all RMON groups as well as RMON
- function of switch probe offers an in-band link to network manager
- RFC 1757 RMON groups supported are statistics, events, history & alarms

- Functions can monitor segment as long as they use 10BaseT or 100BaseT

47. To check timeliness of ISDN events in a log/ debug filter, what command can configure router to indicate how many milliseconds have occurred between events displayed:

- _____

48. What are the allowed encapsulation in the output of “show interface atm” command?

- AAL5, PVC, SVC
- VC, VPI, VCI
- SNAP, NSAP
- AAL5, AAL4, AAL1
- AAL4, AAL5, LANE
- None of the above

49. Which is not cause for complete interface reset?

- problem with clocking signal
- problem with Frame relay
- hardware problem with router interface
- interface counters cleared with clear interface
- packets sequenced for transmission are not send for several ms
- router restart interface due to persistent line protocol

50. Which is NOT one of IOS defined functional area of network management?

- fault management
- security management
- accounting management
- Quality of service management
- Configuration & name management

51. When you see the Link LEDs flash orange during Catalyst 5000 power-up sequence, what is indicated?

- A module was not correctly inserted into slot, or has failed
- power-up sequence is underway & not yet completed
- more than 1 fan, power supply or supervisor clock is disabled
- network management autodiscovery process us underway
- traffic testing process of interface loopback has not yet completed

52. Because it moves packets, frames or cells from buffer to buffer with simpler determination of traffic source & destination switching is

- not performed in routers
- able to use more intensive processing
- part of protocol's best path decision
- moving data to its ultimate destination
- affected by lower latency than routing

53. where are special processes like debug packet filtering, sending error log entries to a syslog server & SNMP processing done?

- route switch processor
- Netflow error processor
- Si switch processor
- Autonomous switch processor
- CxBus diagnostic processor

54. For troubleshooting cables, which test helps to eliminate uncertainties about cable breaks, cable plant & punch down connections?

- change ports used on switch & determine if problem goes away
- check cable length, impedance and continuity with a network monitor
- replace network adapter card at user device end & retest
- Visually inspect cable connectors., the adapter (and/ interface port & punchdown block termination)
- replace cable with an external cable known to be good

55. When do you need to set a default gateway in a UNIX environment?

- When the hosts are connected to an internetwork
- When the hosts are running routed
- When the hosts are not running routed
- When the hosts are acting as a firewall?

56. Which of the following are tools of Cisco Support online?

- Troubleshooting Assistant
- TAC Assistance
- Software Bug Toolkit II
- Online Ordering

57. Which command would you use to display statistics such as missed datagrams, memory errors, buffer errors, and overflow errors for the first ethernet interface on a Cisco router?

- Show interface ethernet 0
- Show controllers ethernet 0
- Show ethernet 0 errors
- Show interface ethernet 0 errors

58. Which command would you use to display the router images stored in NVRAM?

- Show internal memory
- Show flash
- Show nvram
- Show eprom

59. Which command displays statistics for the buffer pools in router?

- Show memory
- Show buffers
- Show pools
- Show memory buffers

60. Which command displays information about the active processes in a router?

- Show utilization
- Show processes
- Show threads
- Show system processes
- Show system threads

61. Which commands of the following commands is accomplished by sending a packet with the TTL set to 1 then sends lots of packets while incrementing the TTL every 3 packets.

- Ping
- Echo
- Trace
- maproute

62. Which of the following Cisco tools can be used to monitor a network using Simple Network Management (SNMP)?

- CiscoWorks
- TrafficDirector
- VLANDirector
- VlanWorks

63. Which of the following Cisco tools lets you gather data, monitor activity on your network and find potential problems?

- CiscoWorks
- TrafficDirector
- VlanDirector
- VlanWorks

64. Which of the following Cisco is used to manage switches, and also has the ability to provide an accurate picture of your VLANs?

- CiscoWorks
- TrafficDirector
- VlanDirector
- VlanWorks

65. Which of the following would allow you to measure parameters such as AC and DC voltage, current, resistance, capacitance, and cable continuity for testing physical connectivity?

- Volt Ohm meter
- TDR
- Breakout Box
- Network Monitor
- Network Analyzer

66. Which of the following works by bouncing a signal off the other end of the cable.

- Volt Ohm meter
- TDR
- Breakout Box
- Network Monitor
- Network Analyzer

67. Which of the following would you use to measure the digital signals present at PCs, printers, modems and CSU/DSU's?

- Volt Ohm meter
- TDR
- Breakout Box
- Network Monitor
- Network Analyzer

68. Which device continuously tracks packets crossing a network, providing an accurate picture of historical network activity?

- Volt Ohm meter
- TDR
- Breakout Box
- Network Monitor
- Network Analyzer

69. Which device decodes the various protocol layers in a recorded frame and presents summary information about them?

- Volt Ohm meter
- TDR
- Breakout Box

Network Monitor
Network Analyzer

70. Which of the following are valid ways of netbooting a Cisco router:
- MOP
 - TFTP
 - RCP
 - FDDI
 - DHCP
71. Which is the recommended order to boot images from:
- Rom, flash, network
 - Network, rom, flash
 - Flash, network, rom
 - Network, flash rom
72. Which symbol is used to represent a successful receipt of a packet during netboot?
- ! (exclamation)
 - * (asterisk)
 - . (period)
 - O (Letter O)
73. Which of the following things should occur when powering up a Cisco 7500 series router?
- The AC (or DC) OK LED should go on and then turn off once the router is completed is power up sequence.
- The blower will not operate unless the router is overheating
- The RSP and front panel Normal LED's should go on, the CPU HALT lite should be off
- The enabled LED on each interface should go off to indicate that the RSP has assumed master control
- The system banner should be displayed on the console port
74. Which of the following are valid troubleshooting subsystems on all Cisco 2000, 2500, 3000, and 4000 series routers?
- Power subsystem
 - Network processor modules
 - System cables
 - Cooling subsystem
 - Network Interfaces
75. Which of the following are true about the power up sequence in a 5000 series startup?
- PS1 and PS2 leds on the supervisor engine faceplate should be green
 - PS1 and PS2 leds on the supervisor engine faceplat should be orange
 - The status led on the supervisor engine, and all interfaces should be orange
 - The status led on the supervisor engine, and all interfaces should be green

76. True/False: 802.3 does not provide a logical link control protocol?
True
False
77. True/False: The 802.2 frame specifies a type whereas 802.3 frame specifies a length
True
False
78. Which of the following counters accumulates the number of packets that are discarded because they are smaller than the medium's minimum packet size?
Giants
Overrun
Runts
Underruns
Mini
79. What are the functions of the NetSYS tool?
 It allows you to determine the location of cable breaks, etc. throughout the network
 It allows you to simulate network changes, in a virtual environment
 It provides RMON capability and advanced debugging tools when used with CCO.
 It is an industry standard management platform, which supports the Cisco MIB definitions
80. Why is process switching slow?
 Every packet must be handled by three interfaces (incoming, internal, and external)
 Each packet must be examined individually
 Process switching is only available on older Cisco ASICs.
 Process switching checks the CRC on the packet before forwarding it.
81. In what switching mode will the router use if you have debugging on?
 Netflow switched
 Process switched
 Distributed switched
 Fast Switched
82. Which of the following counters accumulates the number of times the transmitter has been running faster than router can handle?
Giants
Runts
Overruns
Underruns
Catch ups
83. Which of the following counters counts the number of packets which were ignored because of a low amount of internal buffers?
Giants
Runts
Overruns
Underruns

Ignored

84. Which of the following scenarios will cause a interface reset?

- Heavy bursts of packets which overrun all system buffers
- Packets queued for transmission were not sent within several seconds
- High CRC errors on a particular interface
- Malfunctioning modem that is not supply the transmit clock signal
- The system notices that the carrier detect line of a serial interface is up

85. Which of the following is a 100mbps token passing, dual ring LAN using fiber optic transmission medium?

- 100baseTX
- 100baseFL
- Token Ring b100
- FDDI

86. Which of the following are legal FDDI specifications?

- MAC, PHY, LLC, PMD
- MAC, PHY, PMD, SMT
- PHY, MAC, LLC, PMD
- PHY, MAC, PMD, SMT

87. Which type of FDDI station would a PC or other device which frequently powers on or off be classified as?

- RAS
- DAS
- SAS
- PAS

88. FDDI defines two traffic types, what are they?

- Bitwise, counter bitwise
- Synchronous, asynchronous
- Serial, parallel

Priority, non priority
Explanation: FDDI provides real time allocation of network bandwidth by using two traffic types synchronous and asynchronous. Synchronous can consume a portion of the 100mbps and asynchronous can consume the rest. Synchronous is best suited for high demand, low latency applications such as voice and video while asynchronous is useful for the rest. Asynchronous bandwidth is assigned using a 8 level priority scheme, each station is assigned a asynchronous priority level, in addition FDDI also permits extended dialogs which allows stations to temporarily use all available asynchronous traffic.

89. Which term is used to describe what happens in a FDDI ring when a failure occurs?

- Loopback

Wrapping
Fail Safe
Relay

90. Which device can be used to prevent ring segmentation by eliminating failed stations from the ring?
DAS
SAS
Optical bypass switch
91. Which FDDI neighbor state(s) indicates that the connection management process has established a connection with a DAS neighbor?
A
S
B
M
Unk
92. Which FDDI neighbor state indicates that the connection management process has established a connection with a SAS neighbor?
A
S
B
M
Unk
93. Which FDDI neighbor state indicates the connection management process has established a connection with a neighbor and determined that it is a concentrator, serving as a master.
A
S
B
M
Unk
94. Which of the following are valid states of a FDDI station which has NOT established connection with its neighbor?
A
S
B
M
Unk
95. Which of the following are valid states for a Physical A or Physical B connection?
Off
linked
Active

Trace
Reset

96. Which are the two types of frames defined by token ring?
Tokens
Controls
Delimiters
Data/command
97. Which of the following are valid uses of the ICMP protocol?
Echo and reply message to test node reachability
Used by source to perform route tracing by incrementing the TTL
Redirect message to stimulate more efficient routing
Reliable transport protocol for some applications
98. Which protocol is used to discover the addresses of routers on directly attached subnets?
ICMP
IDRP
TCP
UDP
99. Which of the following are valid ways of IP multicasting?
Spanning Tree Protocol
UDP flooding
Subnet Broadcast
Internet Group Membership Protocol
Multicast Membership Protocol
100. Which of the following multicast methods requires that a host dynamically register itself in a multicast group?
UDP Flooding
Subnet Broadcast
IGMP
DVMRP
101. Distance Vector Multicast Routing Protocol uses reverse path flooding, with reverse path flooding...
The router floods the packet out all interfaces except the one the packet arrived from
The router floods the packet out all paths include the one it arrived from
The router floods the packet out all paths except the path that leads back to the source
102. Which of the following situations would cause a route to be learned through the wrong interface?
Invalid registration in the multicast registration group

Split horizon has been disabled on the interface
Routes are being distributed through the wrong protocol

103. True/False: You are troubleshooting a down FDDI Ring, you get a pattern of all zeros in either address field for both neighbors, so you can safely assume there is a physical connection problem?

- True
- False

104. Which of the following are common problems that occur when a upstream neighbor has failed and a bypass switch has been installed?

- Ring does not fail over correctly and becomes stuck in transitive sync
- Bypass switches cause degradation and bring the ring down
- The upstream neighbor sends a electrical pulse while it is going down which requires a manual reset on the bypass switch
- Collisions occur on the FDDI ring

105. Capturing appletalk packets with your sniffer with your encounter the following counter: 279 frames accepted. What is the meaning of this field?

- the analyzer has transmitted 279 well formed packets
- the analyzer has seen 279 well formed packets
- 279 packets have met the routers access list criteria
- the router has received 279 packets that met the capture filter criteria
- the analyzer has seen 279 packets with its address as the destination

106. Identify the correct order to resolve a incorrect or corrupted image on a Cisco 2500 series router?

- A. Power cycle router
- B. at the > prompt enter o/r 0x1,
- C. obtain a new system image via TFTP
- D. press break key within 60 seconds
- E. enter I to reinitialize the router

- A, B, C, D, E
- A, C, D, B, E
- E, D, C, A, B
- A, D, B, E, C

107. Which word is used to describe the alternating pattern of ones and zeros at the front of an ethernet frame?

- Header
- FCS
- Preamble
- SOF
- FCS

108. Which word is used to describe the last 4 bytes of an 802.3 frame?

Header
FCS
Preamble
SOF
FCS

109. What is the longest and shortest ethernet frames (not including the preamble)?

48/1514
48/1600
60/1514
60/1600

110. How do you tell the difference between an Ethernet II and a 802.3 ethernet frame?

Ethernet II does not have a FCS algorithm
Ethernet II implements a type, whereas 802.3 implement a length
Both formats use a difference sequencing algorithm
There is no noticable difference between the two formats

111. What is the 802.3 type code for the IP protocol?

0x006
0x800
0x100
0x001
There is no type code for IP

112. Which of the following FDDI specifications handles addressing, token handling, and error recovery?

SMT
MAC
PHY
PMD
NFS

113. Which of the following FDDI specifications handles defines data encoding/decoding, clocking requirements and framing?

SMT
MAC
PHY
PMD
NFS

114. Which of the following FDDI specifications defines the characteristics of the transmission medium such as power levels, bit error rate, and optical components?

SMT

MAC
PHY
PMD
NFS

115. Which of the following FDDI specifications handles FDDI stations configuration, ring configuration and ring control features including insertion and removal?

SMT
MAC
PHY
PMD
NFS

116. Which of the following protocols would you use to establish and maintain full duplex data streams between sockets in a Appletalk network.

ASP
ADSP
PAP
AFP

117. Which Appletalk protocol is used to establish and maintain sessions between clients and servers?

ASP
ADSP
PAP
AFP

118. Which of the following protocols is a connection oriented protocol that establishes connections between clients and servers?

ASP
ADSP
PAP
AFP

119. Which Appletalk protocol is used to help clients share files across a network?

ASP
ADSP
PAP
AFP

120. Which of the following Appletalk protocols are part of AppleTalk's transport layer?

RTMP
AFP
AURP
ASP

121. AppleTalk's primary network-layer protocol is the ____

AARP
RTMP

ZIP
DDP
NBP

122. Which of the following are valid Appletalk Addresses?

10.1.1.1
10.1.1
10.1
10

123. Which protocol used to tunnel Appletalk packets through a non appletalk network?

RTMP
ZIP
AURP
ATP

124. Which FDDI ECM state means the router is allowing time for the optical bypass switch to join into the ring?

CHECK
INSERT
TRACE
PATH_TEST

125. Which of the following is true about a Appletalk Node?

A node can belong to a single zone
A node can belong to multiple zones
A node can belong to multiple zones as long as it is a server

126. Which Appletalk protocol is a transport protocol which is transmitted reliably?

ARTP
AARP
ATP
ZIP

127. Which protocol is used to associate an Appletalk address with a particular media address?

NBP
AARP
FLAP

ZIPExplanation: The AppleTalk Address Resolution Protocol (AARP) is used to associate AppleTalk addresses with particular media addresses. AARP associates protocol addresses with hardware addresses. When either AppleTalk or any other protocol stack must send a packet to another network node, the protocol address is passed to AARP. AARP checks its address cache to see if the relationship between the protocol and the hardware address is already known. If so, that relationship is passed up to the inquiring protocol stack. If not, AARP sends a broadcast or multicast message inquiring about the hardware address for the protocol address in question. If the broadcast reaches a node with the specified protocol address, that node replies with its hardware address. This information is passed up to the inquiring protocol stack, which uses the hardware address in communications with that node.

128. Select the correct order for Appletalk node address assignment
1. Conflicting address sends a conflict message indicating a problem
 2. Node chooses a new address
 3. Chooses its first network address
 4. Chooses a network protocol
 5. Checks to see if a network address is in use

4, 3, 5, 1, 2

129. Which of the following are valid Appletalk Link Layer protocols? (1)
- ADSP, ZIP, ASP
TDSP, TASP, PAP, NBP
ELAP, LLAP, TLAP, FLAP
NBP, ADSP, ZIP, PAP

130. What is the maximum speed and node count of a local talk network?
- 230.4 kbps / 32 nodes
512 kbps / 64 nodes
1 mbps / 128 nodes
10 mbps / 256 nodes

131. Which Appletalk protocol is used to establish and maintain routing tables?
- ZIP
NBP
RTMP
AURP

132. Which protocol is the Appletalk counterpart to TCP/IP's DNS server?
- RTMP
NBP
ASP
AURP

133. What term is used to describe the following table:
1. Marketing
 2. Accounting
 3. Engineering

ZIP
ZIT
ZONE MAP
ZONE LIST

134. When troubleshooting a problem connecting a modem to a router which of the following is a useful diagnostic step?
- Use the show line command to verify adequate buffering

Issue the show line command to check modem state
Show serial s0 queue to monitor traffic on the port
Upgrade to the latest modem drivers

135. The follow lines are part of the output from a show interfaces command:

Ethernet 0 is up, Line protocol is up
Hardware is MCI Ethernet aa00.0040.0134 BIA 0000.0c00.4365
Ethernet address 131.0.8.11 subnet 255.255.255.0

Which hardware address will this station respond to

0000.0c00.4365
Aa00.0040.0134
131.0.8.11
255.255.255.0

136. What does the SNAP mean in the following packet dump:

FC: LLC Frame PFC

Attention Code = none
FS addr recognized indicator -0
Frame copied indicator 00

Destination = station cisco a05903
Source = station ibm 0a8591
Llc header

dsap ==aa
Source sap = aa
Command unnumbered frame relay

Dsap header type 0x800

subnetwork access protocol
super non application process
serial network application
second node appearance

137. Capturing appletalk packets with your sniffer with you encounter the following counter:

5024 frames received

What is the meaning of this field ?

the analyzer has transmitted 5024 well formed packets

the analyzer has seen 5024 well formed packets

5024 packets have met the routers access list criteria

the router has received 5024 packets that met the capture filter criteria

the analyzer has seen 5024 packets with its address as the destination

138. Which problem will cause an increasing number of transitions occurred when you do a show interface token ring

Broadcast storms

The ring is repeatedly going down and coming back up

Malformed packet arriving on the token ring interface

Excessive ring poll processes on the network

139. Which FDDI ECM state means the router is allowing time for the optical bypass to remove itself from the ring?

CHECK
DEINSERT
TRACE
PATH_TEST

140. Which problem will cause an increasing number of CRC errors occurred when you do a show interface token ring

Broadcast storms
The ring is repeatedly going down and coming back up
Malformed packet arriving on the token ring interface
Excessive ring poll processes on the network

141. Which tool is best suited for testing signals across a PC / Modem interface?

Network monitor
Breakout box
Time domain reflectometer
Null modem cable

142. After capturing a variety of IPX traffic from your network, you want to view only the packets using the 802.3 frame type, what is the easiest way to accomplish this?

Set a router access list that prevent other frame types on the network
switch the analyzers connection to thin ethernet
configure a display filter
set the interface card in the analyzer to accept on the ethernet II frame type

143. What tool is useful for certification of your Lan infrastructure?

a bert/wart
cable tester
packet driver
network management system

144. You have noticed a few of your IPX clients on a serverless segment are having a problem connecting to their router since you've updated your router from an older IOS version to the newest version. What action can you take to resolve this problem

enable old style novell broadcasts
issue the ipx gns-round-robin
increase the ipx-gns-reponse-delay time on the router
enable gns on the cisco router
turn off gns on the novell server

145. What command displays the entries in the routing table

Show ip route
Show ip protocol
Show ip arp
Ping

146. You are on a network with a large variety of traffic, you only want to accept the packets using the 802.3 frame type, what is the easiest way to accomplish this?

Set a router access list that prevent other frame types on the network
switch the analyzers connection to thin ethernet
configure a display filter
set the interface card in the analyzer to accept only the desired frame type

147. Based on the output of the show processes command what problem is currently affecting the router,:

```
Router1>show processes
CPU utilization for five seconds: 100%/90%; one minute: 79%; five minutes: 59%
PID QTy PC Runtime (ms) Invoked uSecs Stacks TTY Process
 1 Mwe 15AD82 420354636 232519845 1807 1816/3000 0 IP-EIGRP Router
 2 Lst 7520A 584387348 4922340 118726 1780/2000 0 Check heaps
 3 Mst 9D35E 0 2 0 1768/2000 0 Timers
 4 Lwe F68D8 23212148 17455578 1329 1084/2000 0 ARP Input
 5 Lwe 110B42 0 1 0 1764/2000 0 Probe Input
 6 Mwe 1104BE 64736 189362 341 1712/2000 0 RARP Input
 7 Hrd 1021A8 258473500 222795846 1160 2828/4000 0 IP Input
 8 Mwe 12B99A 196784 8186013 24 1056/2000 0 TCP Timer
 9 Lwe 12D764 1220 503 2425 3204/4000 0 TCP Protocols
10 Mwe 17A406 10036532 8521505 1177 1440/2000 0 CDP Protocol
```

Several ospf and iso protocols have stopped running
The tcp timer has expired
Excessive high network bandwidth utilization
high cpu utilization

148. What command can you use to obtain a routers firmware version?

Show config
Show version
Show controller

Show system

149. What is an advantage of a connectionless protocol?

high reliability
preferrable and lengthy exchanges of data
less network traffic
fast error recovery and flow control

150. What is a common term Cisco systems uses when referring to the frame type Novell describes as ethernet 802.3
choose (1)

e2
arpa
ethernet_ii
snap
ethernet_snap
etherner_802.2
novell-ether
sap
ISO 1

151. What problem is likely to result in a users inability to see zones or services outside their own network?

clients are not configured with a default gateway
phase 1 / phase ii incompatibility
incorrect appletalk encapsulation
too many zones configured for a single network

152. The results of a show controllers token command on one of the token ring interfaces on your router includes the information that the interface is "bridge capable" what does this mean?

the ring bridge has passed the ring bridge self test
source bridge routing is enabled
the interface is bridge capable but not configured for bridging
the router has source route bridging buffers available

153. Which FDDI ECM state means the router is isolated from the network?

IN
OUT
TRACE
LEAVE
DEINSERT

154. What command can you use to obtain a routers configuration for your tech support

engineer

Show firmware

Show controllers

config

Show running-config

155. What does IPX internal network command do?

Set the ipx interface as non seed

Adds an additional network address to an interface

Assigns the address for IPX when it is tunneled over IP network

Assigns the address that is advertised by NLSP and IPX wan on all router interfaces

156. You configured your Novell server to use 802.2 encapsulation, you check your router sap table and notice it is empty, what is a possible problem?

SAP is not supported on 802.2

Mismatched frame type

IPX does not work correctly with 802.2

157. show interface fddi 3/0 displays an upstream neighbor value of 0000 0000 0000 what is the significance of this address?

it is the software address of the upstream neighbor

it is the hardware address of the upstream neighbor

there is probably a physical problem

the address upstream neighbor is illegal

158. Which step of the troubleshooting process involves asking questions of affected users, and collecting information from network management systems.

logging the trouble ticket

verifying the information

gathering facts

defining the problem

isolating the problem to the device level

159. Which step of the troubleshooting process dictates that you should contact affected users and check network management tools.

verifying the information

gathering facts

defining the problem

isolating the problem to the device level

160. Which step of the troubleshooting process contains changing one variable at a time to allow you to reproduce a given situation

logging the trouble ticket
verifying the information
gathering facts
defining the problem
isolating the problem to the device level

161. Which FDDI ECM state means the router is actively participating in the network?

CHECK
INSERT
OUT
IN
LEAVE

162. Which step of the troubleshooting process contains identifying a set of symptoms and associated causes?

logging the trouble ticket
verifying the information
gathering facts
defining the problem
isolating the problem to the device level

163. Which FDDI ECM state means the router is actively trying to reclaim a stuck beacon?

CHECK
INSERT
TRACE
PATH_TEST

164. which tool can be used to verify cable length? (2)

ethernet analyzer
tdr
snmp agent
volt/ohm meter

165. Which line in the partial display of the tcp packet header listed below indicates available space for incoming data below:

tcp: source port = 1339
tcp: destination port = 23
tcp: initial sequence number = 0
tcp: data offset = 20 bytes
tcp: flags = 20
tcp: 0 = no urgent point
tcp: 0 = no acknowledge

tcp: 0 = no push
tcp: 0 = no reset
tcp: 1 sent
tcp: 0 = no fin
tcp: tcp window = 512
tcp: checksum = e43e correct
tcp: no options

166. What is the source of a common novell network error referred to as “Configuration mismatch”

routers do not contain support for proprietary novell frame types
servers or routers have assigned different network addresses to a common network
inconsistent frame types used by the clients and servers
network servers on the same network using different frame types

167. what command reports the discover of new zones?

Debug apple errors
Debug apple zip
Debug apple routing
Show apple interfaces

168. when diagnosing a problem the output of the show interfaces serial command includes the following line:
serial s0 is administratively down, line protocol is down
what does this mean?

the serial line is in an idle state
the interface has been taken down by an administrator
the remote router is down
the interface is in an idle dial on demand link

169. Regarding the following frame which statements are true? (choose 2)

Ipx: ipx header
Ipx: no align
Ipx: checksum = ffff
Ipx: length = 224
Ipx: transport control = 00
Ipx: 0000 = reserved ipx
Ipx: 0000 = hop count
Ipx : dest network.node = 1000.ffffffffffff socket = 1106 (sap)
Ipx: src network.node = 100.02.60 c2 fc 79 socket = 1106 (sap)

This is a broadcast packet
This frame uses a snap format
This is uses a novell ether frame
This a portion of a network layer protocol
The ipx portion is a connection oriented protocol

170. A show interfaces serial command indicates a high number of ignored frames, what is the significance of the interface ignore counter?

The amount of frames received which were too large for the interface buffers

The number of times the hardware interface discarded frames because it ran low on internal buffers

The amount of frames received which could not be saved due to congestion on the routers backplane

The number of times the hardware interface could not save data to its internal buffer due to high traffic rates

The number of times the physical media dropped frames due to improper buffering

171. An IP ping command displays a series of five exclamation points in the output. What is the significance of the exclamation points.

Network unreachable

a level five error was returned

indicates a wait time before a reply was received

five replies were received

five receive buffers available.

172. Which of the following protocols are always connectionless (choose 3)

1. IP
2. Tcp
3. Arp
4. 802.3
5. 802.2

173. What is the show buffers command used for?

Showing trends that indicate the link is a bottleneck

Baseline application performance

Proof of interface functionality

Verifying that all protocols are operational

174. What type of device is typically used to test physical connectivity?

protocol analyzer

digital multimeter

breakout box

packet driver

175. Which tool is most useful for analysis of redesign, reconfiguration, or stress testing?

network analyzer

network management system

simulation and modeling tools

network monitor

176. what type of protocol requires the application to request retransmission of lost, missing or corrupt packets?

connectionless
connection oriented
host to host
client/server

177. which step follows isolating a problem isolating a problem to a specific device (router)
swapping out the router and observe the result
run a diagnostic on all interfaces and observe the result
isolate the likely problem source to a single variable
upgrade all software to the current release levels?

178. A show interfaces serial command indicates a high number of overruns, what is the significance of the interface overrun counter?
The amount of frames received which were too large for the interface buffers
The amount of frames received which could not be saved due to congestion on the routers backplane
The number of times the hardware interface could not save data to its internal buffer due to high traffic rates
The number of times the physical media dropped frames due to improper buffering

179. Where should you first look for errors when troubleshooting a serial wan problem?
the physical connections by checking the cable interface connections
the protocol operation by viewing a packet trace of link traffic
interface operation with the show interface command
network host reachability with the ping utility?

180. Where are the output of the debug and system error messages sent by default?
output configuration requires a tftp server to put files
console
output is written to a syslog server
error logging automatically invokes debug output to a designated ftp server

181. What is the troubleshooting engine?
the report generator for cisco debug commands
the name of the cisco documentation cd
a customer engineered tool that uses case based reasoning to solve common problems
a cisco road show highlighting internetwork troubleshooting solutions

182. A show interfaces serial command indicates a high number of interface resets, what is the significance of the interface resets counter?
the router restart several times
key packets were not sent within several seconds time
there have been several attempts to restart the interface with the protocol down but the interface up
this counter reflects the number of times the reset button the back of the router was pushed

183. Which command should you use on an appletalk network if you suspect problems and want to monitor neighbors becoming reachable or unreachable and interfaces coming up or down.

- show apple rtmp
- debug apple traffic
- protocol apple verbose
- debug apple events

184. When should you use the write core command?

- to obtain a core dump after a router has crashed?
- To write a backup of the configuration to the routers memory
- To obtain a memory image of a malfunctioning router
- to write the os image to nvram

185. The show Ipx traffic displays the pitched count increasing and the routes disappear and reappear often. Which of the problems is likely a source of the symptoms?

- increased routing throughput
- better error recovery with redundant links
- routes unpredictably appearing and disappearing
- the router is sending broadcasts on a network with spanning tree disabled
- non routable protocols could not reach remote destinations.

186. When troubleshooting a wan connection what command displays hardware type and version information for each module in a Cisco router?

- Show interfaces serial
- Show version
- Show controller
- Show running-config

187. When placing your CSU/DSU in loopback which of the following should happen:

- The keepalive counters will increment
- The show interface serial x should say that it is looped
- The error lite on the remote CSU should be activated
- The green lite on the interface should turn to orange

188. When a CSU/DSU is in loopback, the line protocol should be:

- Up
- Down
- Either up or down
- Transitive

189. True/False: The best way to troubleshoot a frame relay connection is to put the CSU/DSU in loopback mode?

- True
- False

190. The output of show buffers indicates an increasing trend under very big buffers what does this indicate?

too many frames are being sliced because the receive buffer is too small
outgoing frames are being truncated because the very big buffer size is too small
the number of very big output buffers is being reduced
there are no buffers in the free list
Unused very big buffers are being reduced to smaller buffers

191. You have begun implementing an action plan to resolve a problem. What should your next action be if your previous action did not solve the problem?

gather additional facts
undo the changes that didn't work
repeat the process modifying additional variables till a solution is reached
evaluate the problem definition for validity

192. What is the purpose of the debug arp command?

Determines if the router is sending and receiving arp requests?
displays the arp cache contents
send an arp request to all attached router neighbors
place a new list of ip hardware address pairs for all stations on attached segments into the routers cache.

193. How do you use the show processes command to see when processes are causing an excessive load on the router?

issue the command at select time throughout the workday to note the variations in the values over time
issue the command multiple times because the fast clock of the router does not provide an accurate snapshot of the router with a single invocation
redirect output to a file since the high number of processes running on a router results in multiple screens of information
issue the command several times on a busy router because high utilization spikes truncate the output of the command.

194. Which type of troubleshooting tool is commonly used to display packet data?

Digital multimeter
Network monitor
Fox box
Protocol analyzer

195. which command restricts logging to the console only?

no logging on
log console
logging monitor only
logging monitor

196. if users can access some hosts on a local and remote host on some segment but not others what is the likely cause of the problem? (choose the best answer)

router failures
access list configuration
addressing and subnet mask problems
high utilization
overloaded hosts

197. Regarding the following show interfaces command output which of the following statements is true?
2200000 packets input, 200000000 bytes 0 no buffer
192000 broadcasts, 134 runts, 0 giants
3 input errors, 390 crc, 0 frame, 0 overrun, 0 ignore, 0 abort
0 input packets with dribble condition detected
23000230 packets output 30239203 bytes 0 no buffers
output packets: 436000 collisions

the network attached is experiencing broadcast storms
the network exceeds router capacity
the network is experiencing excessive collisions
malformed packets are causing router degradation

198. what command should you use to display debugging information about ip packets?
debug ip packet
show ip buffers
show ip access
debug ip traffic

199. Which of the following error logging methods produces the lowest overhead
console
remote terminal
syslog server

200. which device commonly uses the rmon mib for internetwork troubleshooting
protocol analyzer
network monitor
cable tester
packet driver

201. The global statistics screen of a internetwork analyzer says that there is a large amount of SNMP traffic. What is the significance of SNMP?
The routers are exchanging large routing tables
The management overhead constitutes a large portion of the link traffic
A lot of email is exchanged across the link
A remote device is informing the management console that there is a problem with the link.

202. What will be indicated in the show interfaces command output if more than 3 consecutive keepalives have been missed by the s0 interface?

Serial 0 is up, line protocol down
Serial 0 is down, line protocol is up
Serial 0 is up, line protocol is down
Serial 0 is not responding
Serial 0 is down

203. Which is the possible cause of a host being unable to access other networks
the local host and a remote station have the same address
the router between different hosts uses the same frame type
no default gateway specified
incompatible link type between the local host and remote router

204. What tool is used to verify a optical fiber installation?
Protocol analyzer
Volt/ohm meter
Network monitor
Otdr
Digital multimeter

205. What is the purpose of the debug ip icmp command?
verbose explanation of icmp ping results
display if the router is sending or receiving icmp messages
troubleshoot problems with icmp protocol stack
send icmp packets to all neighboring routers

206. The show Ipx traffic displays the bad hop count increasing and the routes disappear and reappear often. Which of the problems is likely a source of the symptoms?
increased routing throughput
better error recovery with redundant links
routes unpredictably appearing and disappearing
non routable protocols could not reach remote destinations.

207. Which of the problems can cause problems when attempting to forward BOOTP or other UDP broadcasts packets
Invalid routes appearing in the routing table
Invalid arp cache entries
Heavy traffic on segment
Missing or Misconfigured ip helper-address

208. If certain TCP/IP host connections fail, and other succeed what is a likely cause of the problem? (choose all that apply)
 Misconfigured subnet mask or addresses on hosts or router
 IP Authentication options are not configured correctly
 Misconfigured access list
 High broadcasts causing frames to be discarded

- ICMP redirects are not supported by some hosts
- No default gateway specified on remote host

209. Invalid routes appearing in the routing table

Misconfigured access lists
Invalid arp cache entries
Heavy traffic on a segment

210. If certain RIP or IGRP routes are missing from the routing table, what is a likely cause of this problem? (two answers)

Other routing protocols causing conflicts
Variable length subnet mask
Heavy network traffic causes information to be discarded
Missing network router configuration command

211. What is the function of the “debug apple events” command?

display router errors
monitors route aging advertisements and acquisition
starts a log of all appletalk traffic
starts a log of NBP traffic

212. What is kept in the route descriptor field of a RIF?

Ring numbers of the last/next ring
Mac addresses of the last/next router
Bridge numbers of the last/next bridge
Bridge numbers and the last/next ring

213. Which of the following is most likely caused by a classfull subnet mask?

Excessive broadcast traffic
Non functioning helper address
Invalid RIP or IGRP routes
Unwanted debugging information to console

214. Which of the following is caused when the processor has executed an invalid instruction?

Bus error
Address error
Watchdog timeout
Parity error
Emulator trap

215. The length field in the RIF frame format covers the

Header
Payload
Payload + header
There is no such field

216. How many route descriptor fields can there be in a single RIF frame?

None, RIF's do not have route descriptor fields

Only 1

More than 1

217. What is the direction bit (D) used for in a token ring RIF frame?

To indicate if the frame has been bridged

To indicate if a frame is coming or going

To indicate if the frame contains source route information

To indicate if the frame has been returned to the source with an error

218. Which type of SDLC frame carry upper layer information and some control information?

I frames

U frames

S frames

FCS frames

219. During an attempted ISDN call, the attempt to connect is successful, however attempts to ping or otherwise communicate fail, what are possible problems?

Incorrect cable

Speed setting mismatch

CHAP misconfigured

No route to remote host

220. Which command would you use to determine if a DLCI is assigned to the wrong interface?

Show frame-relay dlci

Show frame-relay pvc

Show interface dlci

Show interface frame-relay

221. Which type of SDLC frame are used to request control information?

I frames

U frames

S frames

FCS frames

222. Which of the following is caused when the system hangs?

Bus error

Address error

Watchdog timeout

Parity error

Emulator trap

223. By default how often are keepalive messages sent on a frame relay interface?

- 1 seconds
- 3 seconds
- 5 seconds
- 10 seconds

224. Which of the following are possible reasons why an ISDN router will not dial? (2)

- Incorrect cable
- Misconfigured dialer map
- Speed setting mismatch
- Misconfigured access-list

225. Which command would you use to check if there is a chat script running?

- Debug chat
- Debug modem chat
- Debug line chat
- Debug all

226. What should the status of the show line exec command on a cisco access server show, in order for you to be able to perform a reverse telnet? (choose all that are correct)

- inout
- ready
- RIisCD
- Waiting
- Online

227. Which command would you use to view the status of the auxiliary port attached to a cisco 2516 (the 2516 has 16 serial ports connected to it)

- Show line 1
- Show line aux
- Show line 17
- The status auxiliary port cannot be viewed

228. Which of the following is not a problem which can occur on a serial interface?

- CRC errors
- High number of collisions
- Data underruns
- Interface in loopback

229. Which command would you use to verify which interfaces have OSPF running with the IP protocol on them?

- Show interfaces ospf ip
- Show ospf ip interfaces
- Show ip ospf interfaces
- Show interfaces ip ospf

230. The show interface fddi 3/0 displays a status value of LSU what does this mean?

It was caused by because all other line states are unknown

It was caused by the occurrence of 16 potential noise events that did not satisfy the criteria for entering into any other line state.

It was caused by the receipt of eight or nine HQ or QH symbol pairs

It was caused by four or five idle symbols

231. Identify the true statements about the frame relay frame format?

The flags field delimit the beginning and end of a frame

Four bytes are reserved for the DLCI value

The frame is a fixed length

Each frame can be flagged as Discard Eligible.

232. Which of the following are mandatory for a implementation of LMI for any device participating in a frame relay network?

Virtual Circuit Status messages

Multicasting

Global addressing

Simple flow control

233. What is the result when a host and router have a subnet mismatch?

Excessive broadcast traffic

Packets not routed properly

Unwanted debugging information to console

234. Which type of SDLC frames are not sequenced and are used exclusively for control purposes?

I frames

U frames

S frames

FCS frames

235. What is a possible result when OSPF routers do not properly establish neighbors?

Excessive broadcast traffic

Non functioning helper address

Networks become unreachable

Unwanted debugging information to console

236. Which Cisco product works with sun net manager and hp openview?

cisco netmanager

cisco works

cisco rmon manager

cisco traffic manager

237. What counter in the show interfaces serial command output indicates a modem or line problem exists?

input errors
carrier transitions
queue overruns
keepalive set

238. Which of the following occurs when a hardware error check fails. This problem is almost always due to hardware failure.

Bus error
Address error
Watchdog timeout
Parity error
Emulator trap

239. Which of the following is caused when the processor tries to use a device or memory location that does not exist?

Bus error
Address error
Watchdog timeout
Parity error
Emulator trap

240. Which of the following error types is generated when the IOS software tries to access data on incorrectly aligned boundaries?

Bus error
Address error
Watchdog timeout
Parity error
Emulator trap

241. Which of the following are reasons for periodic communication failures when using RSRB? (2)

Misconfigured T1 timers
Incorrect mapping of netbios names
Wan Link problems
Misconfigured source-bridge command

242. What command monitors RTMP route aging acquisition advertisements

Debug apple rtmp
Debug rtmp
Debug apple events
Debug events apple

243. Which command would you use to determine if a target token ring station is visible to current router when attempting to debug and ethernet to token ring bridging scenario?

Show rif

Show span
Show rsrb
Show bridge

244. Which command would you issue to send all logging results to an internal buffer to
viewed later

Logging offline
Logging snmp
Logging buffered
Logging console

245. Which of the following commands would you use to troubleshoot a misconfigured
ethernet to token ring address mapping?

Show e2t
Show irb
Show rsrb
Show span

246. Which command will display information on ALL IP Routing Information Protocol
(RIP), as well as all routing table updates and route-cache updates

Debug ip route-cache
Debug routing events
Debug ip routing
Debug rip router

247. Which of the following commands would allow you to output the traffic that matches
access list 101.

Debug access-list 101
Debug access-list 101 events
Debug ip packet 101
Debug ip access-list 101

248. Select the command which would give you the output:

IP ARP: sent req src 131.108.22.7 0000.0c01.e117, dst 131.108.22.96 0000.0000.0000

IP ARP: rcvd req src 131.108.22.96 0800.2010.b908, dst 131.108.22.7

IP ARP: rcvd req src 131.108.6.10 0000.0c00.6fa2, dst 131.108.6.62

IP ARP: rep filtered src 131.108.22.7 aa92.1b36.a456, dst 255.255.255.255 ffff.ffff.ffff

IP ARP: rep filtered src 131.108.9.7 0000.0c00.6b31, dst 131.108.22.7 0800.2010.b908

Debug arp
Debug ip arp
Debug arp all
Debug arp event

249. Select the command which would give you the output:

ICMP: rcvd type 3, code 1, from 10.95.192.4

ICMP: src 10.56.0.202, dst 172.16.16.1, echo reply

ICMP: dst (10.120.1.0) port unreachable rcv from 10.120.1.15

ICMP: src 172.16.12.35, dst 172.16.20.7, echo reply

Debug ip event

Debug ip icmp
Debug ip ping
Debug ip eigrp

250. Which command would you issue to send all logging results to the telnet session

Logging offline
Logging monitor
Logging buffered
Logging telnet

251. Which command would give you the following output:

```
Ether0: AT: Resetting interface address filters
%AT-5-INTRESTART: Ether0: AppleTalk port restarting; protocol restarted
Ether0: AppleTalk state changed; unknown -> restarting
Ether0: AppleTalk state changed; restarting -> probing
%AT-6-ADDRUSED: Ether0: AppleTalk node up; using address 65401.148
Ether0: AppleTalk state changed; probing -> acquiring
AT: Sent GetNetInfo request broadcast on Ether0
```

Debug apple nbp
Debug apple rtmp
Debug apple events
Debug apple zip

252. Which of the following commands would produce the output:

```
Ether0: AARP: Sent resolve for 4160.26
Ether0: AARP: Reply from 4160.26(0000.0c00.0453) for 4160.154(0000.0c00.8ea9)
Ether0: AARP: Resolved waiting request for 4160.26(0000.0c00.0453)
Ether0: AARP: Reply from 4160.19(0000.0c00.0082) for 4160.154(0000.0c00.8ea9)
Ether0: AARP: Resolved waiting request for 4160.19(0000.0c00.0082)
Ether0: AARP: Reply from 4160.19(0000.0c00.0082) for 4160.154(0000.0c00.8ea9)
```

Debug apple aarp
Debug apple arp
Debug apple nbp
Debug apple ZIP
Debug apple events

253. In the ARP conversation show below, what is the IP address for the station with the MAC address 0000.0c00.6fa2

```
IP ARP: sent req src 131.108.22.7 0000.0c01.e117, dst 131.108.22.96 0000.0000.0000
IP ARP: rcvd rep src 131.108.22.96 0800.2010.b908, dst 131.108.22.7
IP ARP: rcvd req src 131.108.6.10 0000.0c00.6fa2, dst 131.108.6.62
IP ARP: rep filtered src 131.108.22.7 aa92.1b36.a456, dst 255.255.255.255 ffff.ffff.ffff
IP ARP: rep filtered src 131.108.9.7 0000.0c00.6b31, dst 131.108.22.7 0800.2010.b908
```

131.108.22.7
131.108.22.96
131.108.6.10
131.108.6.62

254. In the AARP conversation show below, what was the MAC address for the host with the Appletalk address of 4160.26?
Ether0: AARP: Sent resolve for 4160.26
Ether0: AARP: Reply from 4160.26(0000.0c00.0453) for 4160.154(0000.0c00.8ea9)
Ether0: AARP: Resolved waiting request for 4160.26(0000.0c00.0453)
Ether0: AARP: Reply from 4160.19(0000.0c00.0082) for 4160.154(0000.0c00.8ea9)
Ether0: AARP: Resolved waiting request for 4160.19(0000.0c00.0082)
Ether0: AARP: Reply from 4160.19(0000.0c00.0082) for 4160.154(0000.0c00.8ea9)

0000.0c00.8ea9
0000.0c00.0453
0000.0c00.0082
not shown

255. In the ARP conversation show below, what is the MAC address for the station with the IP address 131.108.22.7
IP ARP: sent req src 131.108.22.7 0000.0c01.e117, dst 131.108.22.96 0000.0000.0000
IP ARP: rcvd rep src 131.108.22.96 0800.2010.b908, dst 131.108.22.7
IP ARP: rcvd req src 131.108.6.10 0000.0c00.6fa2, dst 131.108.6.62
IP ARP: rep filtered src 131.108.22.7 aa92.1b36.a456, dst 255.255.255.255 ffff.ffff.ffff
IP ARP: rep filtered src 131.108.9.7 0000.0c00.6b31, dst 131.108.22.7 0800.2010.b908

0000.0c01.e117
0000.0000.0000
0800.2010.b908
0000.0c00.6fa2
aa92.1b36.a456

256. In the AARP conversation show below, what was the MAC address for the host with the Appletalk address of 4160.19?
Ether0: AARP: Sent resolve for 4160.26
Ether0: AARP: Reply from 4160.26(0000.0c00.0453) for 4160.154(0000.0c00.8ea9)
Ether0: AARP: Resolved waiting request for 4160.26(0000.0c00.0453)
Ether0: AARP: Reply from 4160.19(0000.0c00.0082) for 4160.154(0000.0c00.8ea9)
Ether0: AARP: Resolved waiting request for 4160.19(0000.0c00.0082)
Ether0: AARP: Reply from 4160.19(0000.0c00.0082) for 4160.154(0000.0c00.8ea9)

0000.0c00.8ea9
0000.0c00.0453
0000.0c00.0082
not shown

257. In the ARP conversation show below, what is the MAC address for the station with the IP address 131.108.22.96
IP ARP: sent req src 131.108.22.7 0000.0c01.e117, dst 131.108.22.96 0000.0000.0000
IP ARP: rcvd rep src 131.108.22.96 0800.2010.b908, dst 131.108.22.7
IP ARP: rcvd req src 131.108.6.10 0000.0c00.6fa2, dst 131.108.6.62
IP ARP: rep filtered src 131.108.22.7 aa92.1b36.a456, dst 255.255.255.255 ffff.ffff.ffff
IP ARP: rep filtered src 131.108.9.7 0000.0c00.6b31, dst 131.108.22.7 0800.2010.b908

0000.0c01.e117
0000.0000.0000
0800.2010.b908
0000.0c00.6fa2
aa92.1b36.a456

258. Based on the output from the "debug apple zip" command below, what is the network number for the zone named US-Florida?

AT: Sent GetNetInfo request broadcast on Ether0

AT: Recvd ZIP cmd 6 from 4160.19-6

AT: 3 query packets sent to neighbor 4160.19

AT: 1 zones for 31902, ZIP XReply, src 4160.19

AT: net 31902, zonelen 10, name US-Florida

4160

19

31902

10