**Network Study Guides.com**
**CIT version 4 Questions**

1.           What show command would you issue to show tech support routers condition?
   - ❑   Show version
   - ❑   Show buffers
   - ❑   Show memory
   - ❑   Show tech-support

2.           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
   - ❑   Pin4 - TX, Pin 5 - RX,  Pin 6 - RX, Pin 7 -TX
   - ❑   Pin 4 - RX,  Pin 5 -TX
   - ❑   Pin 4 –TX, Pin 5 – RX

3.           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
   - ❑

4.           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.

5.           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

6.           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

7.           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
- ❑ Ouji board says sunspots.

**8. 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.

**9. 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"

**10. 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

**11. 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

**12. 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

**13. 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.

**14. 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 delieuver in a timely fashion.
- ❑ Synchronous devices may fully utilize the network, by using a reserved token

**15. 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.

16.	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

17.	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.

18.	What should you do if you are checking frame-relay PVC and only see local DCLI 0 DLCI 1023 come up?
- ❑ Check the LMI type
- ❑ Check the encapsulation
- ❑ Check the Frame Relay mappings
- ❑ Call your network service provider

19.	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

20.	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.

21.	In what switching mode will the router use if you have debugging on?
- ❑ Netflow switched
- ❑ Process switched
- ❑ Distributed switched
- ❑ Fast Switched

22.	What debug command would you issue to see if rip routing is operating properly?
- ❑ _____

23.	On the frame-relay DTE/DCE which configuration element will the router autosense?
- ❑ Frame Type
- ❑ Encapsulation
- ❑ Network layer protoocols (eg: ppp)
- ❑ LMI  type

**24.** 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.

**25.** 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

**26.** 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

**27.** 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

**28.** 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

**29.** 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

**30.** 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

**31.** 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

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

33.　　　　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

34.　　　　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

35.　　　　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

36.　　　　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

37.　　　　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

38.　　　　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

39.　　　　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

**40.        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?

**41.        Which of the following are tools of Cisco Support online?**
- ❑ Troubleshooting Assistant
- ❑ TAC Assistance
- ❑ Software Bug Toolkit II
- ❑ Online Ordering

**42.        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

**43.        Which command would you use to display the router images stored in NVRAM?**
- ❑ Show internal memory
- ❑ Show flash
- ❑ Show nvram
- ❑ Show eprom

**44.        Which command displays statistics for the buffer pools in router?**
- ❑ Show memory
- ❑ Show buffers
- ❑ Show pools
- ❑ Show memory buffers

**45.        Which command displays information about the active processes in a router?**
- ❑ Show utilitization
- ❑ Show processes
- ❑ Show threads
- ❑ Show system processes
- ❑ Show system threads

**46.        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

**47.        Which of the following Cisco tools can be used to monitor a network using  Simple Network Management (SNMP)?**
- ❑ CiscoWorks
- ❑ TrafficDirector
- ❑ VLANDirector

❑ VlanWorks

48.	Which of the following Cisco tools lets you gather data, monitor activity on your network and find potential problems?
❑ CiscoWorks
❑ TrafficDirector
❑ VlanDirector
❑ VlanWorks

49.	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

50.	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 Anaylzer

51.	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

52.	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 Anaylzer

53.	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 Anaylzer

54.	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 Anaylzer

**55.** Which of the following are valid ways of netbooting a Cisco router:
MOP
TFTP
RCP
FDDI
DHCP

**56.** Which is the recommended order to boot images from:
Rom, flash, network
Network, rom, flash
Flash, network, rom
Network, flash rom

**57.** Which symbol is used to represent a successful receipt of a packet during netboot?
! (exclamation)
* (asterisk)
. (period)
O (Letter O)

**58.** 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

**59.** Which of the following are valid subsystems on all Cisco 2000, 2500, 3000, and 4000 series routers?
Power subsystem
Network processor modules
System cables
Cooling subsystem
Network Interfaces

**60.** 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

**61.** True/False: 802.3 does not provide a logical link control protocol?
True
False

62. True/False: The 802.2 frame specifies a type whereas 802.3 frame specifies a length
True
False

63. Which of the following counters accumulates the number of packets that are discarded because theya re smaller than the mediums minims packet size?
Giants
Overrun
Runts
Underruns
Mini

64. 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

65. 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

66. 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

67. Which of the following is a 100mbps token passing, dual ring LAN using fiber optic transmission medium?
100baseTX
100baseFL
Token Ring b100
FDDI

68. Which of the following are legal FDDI specifications?
MAC, PHY, LLC, PMD
MAC, PHY, PMD, SMT
PHY, MAC, LLC, PMD
PHY, MAC, PMD, SMT

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

RAS
DAS
SAS
PAS

70.          FDDI defines two traffic types, what are they?
Bitwise, counter bitwise
Synchronous, asynchronous
Serial, parallel
Priority, non priority

71.          Which term is used to describe what happens in a FDDI ring when a failure occurs?
Loopback
Wrapping
Fail Safe
Relay

72.          Which device can be used to prevent ring segmentation by eliminating failed stations from the ring?
DAS
SAS
Optical bypass switch

73.          Which FDDI neighbor state(s) indicates that the connection management process has established a connection with a DAS neighbor?
A
S
B
M
Unk

74.          Which FDDI neighbor state indicates that the connection management process has established a connection with a SAS neighbor?
A
S
B
M
Unk

75.          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

76.        Which of the following are valid states of a FDDI station which has NOT established connection with its neighbor?
A
S
B
M
Unk

77.        Which of the following are valid states for a Physical A or Physical B connection?
Off
linked
Active
Trace
Reset

78.        Which are the two types of frames defined by token ring?
Tokens
Controls
Delimiters
Data/command

79.        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

80.        Which protocol is used to discover the addresses of routers on directly attached subnets?
ICMP
IDRP
TCP
UDP

81.        Which of the following are valid ways of IP multicasting?
Spanning Tree Protocol
UDP flooding
Subnet Broadcast
Internet Group Membership Protocol
Multicast Membership Protocol

82.        Which of the following multicast methods requires that a host dynamically register itself in a multicast group?
UDP Flooding
Subnet Broadcast
IGMP
DVMRP

83.	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

84.	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

85.	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

86.	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

87.	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

88.	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

89. 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

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

Header
FCS
Preamble
SOF
FCS

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

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

92. 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

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

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

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

SMT
MAC
PHY
PMD
NFS

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

SMT
MAC
PHY
PMD

NFS

**96.** 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

**97.** 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

**98.** 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

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

ASP
ADSP
PAP
AFP

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

ASP
ADSP
PAP
AFP

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

ASP
ADSP
PAP
AFP

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

RTMP
AFP

AURP
ASP


103.        AppleTalk's primary network-layer protocol is the ____
AARP
RTMP
ZIP
DDP
NBP


104.        Which of the following are valid Appletalk Addresses?
10.1.1.1
10.1.1
10.1
10


105.        Which protocol used to tunnel Appletalk packets through a non appletalk network?
RTMP
ZIP
AURP
ATP


106.        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


107.        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


108.        Which Appletalk protocol is a transport protocol which is transmitted reliably?
ARTP
AARP
ATP
ZIP


109.        Which protocol is used to associate an Appletalk address with a particular media address?
    NBP
    AARP
    FLAP
    ZIP


110.        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

**111.** 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

**112.** 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

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

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

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

ZIP
ZIT
ZONE MAP
ZONE LIST

**116.** 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

117.	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

118.	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

119.	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

120.	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

121.	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

122. 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

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

Network monitor
Breakout box
Time domain reflectometer
Null modem cable

124. 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

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

a bert/wart
cable tester
packet driver
network management system

126. 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

127. What command displays the entries in the routing table
Show ip route
Show ip protocol
Show ip arp

Ping

128.        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

129.        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

130.        What command can you use to obtain a routers firmware version?
        Show config
        Show version
        Show controller
        Show system

131.        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

132.        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

133.    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 incompability
incorrect appletalk encapsulation
too many zones configured for a single network

134.    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 capab1e" 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

135.    Which FDDI ECM state means the router is isolated from the network?
IN
OUT
TRACE
LEAVE
DEINSERT

136.    What command can you use to obtain a routers configuration for your tech support engineer
Show firmware
Show controllers
config
Show running-config

137.    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

138.    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

139.        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

140.        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

141.        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

142.        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

143.        Which FDDI ECM state means the router is actively participating in the network?
CHECK
INSERT
OUT
IN
LEAVE

144.    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


145.    Which FDDI ECM state means the router is actively trying to reclaim a stuck beacon?
CHECK
INSERT
TRACE
PATH_TEST


146.    which tool can be used to verify cable length? (2)
ethernet analyzer
tdr
snmp agent
volt/ohm meter


147.    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


148.    What is the source of a common novell network error referred to as "Configuration mistmatch"
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
netware servers on the same network using different frame types


149.    what command reports the discover of new zones?
    Debug apple errors

Debug apple zip
Debug apple routing
Show apple interfaces

150.        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

151.        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 = reservered 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

152.        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 where 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

153.        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.

154.        Which of the following protocols are always connectionless (choose 3)
1.  IP
2.  Tcp

3. Arp
4. 802.3
5. 802.2

155.          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

156.          What type of device is typically used to test physical connectivity?
protocol analyizer
digital multimeter
breakout box
packet driver

157.          Which tool is most useful for analysis of redesign, reconfiguration, or stress testing?
network analyzer
network management system
simulation and modeling tools
network monitor

158.          what type of protocol requires the application to request retransmission of lost, missing or corrupt packets?
connectionless
connection oriented
host to host
client/server

159.          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?

160.          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 where 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

161.          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?

**162.** 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

**163.** 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

**164.** 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

**165.** 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

**166.** 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

**167.** 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.

**168.** When troubleshooting a wan connection what command displays hardware type and version information?
Show interfaces serial
Show version

Show controller
Show running-config

169.	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

170.	When a CSU/DSU is in loopback, the line protocol should be:
Up
Down
Either up or down
Transitive

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

172.	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

173.	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

174.	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.

175.	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.

**176.          Which type of troubleshooting tool is commonly used to display packet data?**
Digital multimeter
Network monitor
Fox box
Protocol analyzer

**177.          which command restricts logging to the console only?**
no logging on
log console
logging monitor only
logging monitor

**178.          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?**
router failures
access list configuration
addressing and subnet mask problems
high utilization
overloaded hosts

**179.          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

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

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


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


183.         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.


184.        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


185.        Which is the possible cause of a host being unable to access on 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


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


187.        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


188.        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.

189.        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

190.        If certain TCP/IP host connections fail, and other succeed what is a likely cause of the problem?
❑    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

191.        Invalid routes appearing in the routing table
Misconfigured access lists
Invalid arp cache entries
Heavy traffic on a segment

192.        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

193.        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

194.        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

195.        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

**196.** Which of the following is caused when the processor has executed an invalid instruction?
Bus error
Address error
Watchdog timeout
Parity error
Emulator trap

**197.** The length field in the RIF frame format covers the
Header
Payload
Payload + header
There is no such field

**198.** 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

**199.** 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

**200.** Which type of SDLC frame carry upper layer information and some control information?
I frames
U frames
S frames
FCS frames

**201.** 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

**202.** 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

**203.** Which type of SDLC frame are used to request control information?
I frames
U frames
S frames
FCS frames

**204.** Which of the following is caused when the system hangs?
Bus error
Address error
Watchdog timeout
Parity error
Emulator trap

**205.** By default how often are keepalive messages sent on a frame relay interface?
1 seconds
3 seconds
5 seconds
10 seconds

**206.** 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

**207.** Which command would you use to check if there is a chat script running?
Debug chat
Debug modem chat
Debug line chat
Debug all

**208.** 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

**209.** 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

210.    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

211.    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

212.    The show interface fddi 3/0 displays a status value of LSU what doe this mean?
It was caused by because all other line states are unknown
It was caused by the occurance 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

213.    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.

214.    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

215.    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

216.    Which type of SDLC frames are not sequenced and are used exclusively for control purposes?
I frames
U frames
S frames
FCS frames

**217.        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

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

cisco netmanager
cisco works
cisco rmon manager
cisco traffic manager

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

input errors
carrier transitions
queue overruns
keepalive set

**220.        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

**221.        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

**222.        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

**223.        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

224.	What command monitors RTMP route aging acquisition advertisements
Debug apple rtmp
Debug rtmp
Debug apple events
Debug events apple

225.	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

226.	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

227.	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

228.	Which command will display information on IP Routing Information Protocol (RIP) routing table updates and route-cache updates
Debug ip route-cache
Debug routing events
Debug ip routing
Debug rip router

229.	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

230.	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 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

Debug arp
Debug ip arp
Debug arp all
Debug arp event

231.        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

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

Logging offline
Logging monitor
Logging buffered
Logging telnet

233.        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

234.        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

235.        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

236.        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

237.        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

238.        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


239.     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


240.     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