CLSC Written Answer Sheet

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1.	Which pro	otocol used for multicast registration?
	_ _ _	PPP IGMP VPN CGMP LANE
swi Wh mul	tch ports so that en a host wants ticast group it	IP works with Internet Group Management Protocol (IGMP) messages to dynamically configure t IP multicast traffic is forwarded only to those ports associated with IP multicast hosts. It to join an IP multicast group, it sends an IGMP join message specifying its MAC address and the IP wants to join. The CGMP-capable router then builds a CGMP join message and multicasts the join Il-known address.
2.	By default	
	_ _ _	Enabled Disabled Passive Not installed
Mai only Wh mul	nagement Proto y to those ports en a host wants ticast group it	efault, CGMP is disabled, and no multicast routers are configured CGMP works with Internet Group ocol (IGMP) messages to dynamically configure switch ports so that IP multicast traffic is forwarded associated with IP multicast hosts. Is to join an IP multicast group, it sends an IGMP join message specifying its MAC address and the IP wants to join. The CGMP-capable router then builds a CGMP join message and multicasts the join Il-known address.
3.	To enable	CGMP on a switch you would issue which command?
	_ _ _	Enable CGMP Set CGMP enable Set CGMP active Set CGMP multicast address
Mai only Wh mul	nagement Proto y to those ports en a host wants ticast group it	efault, CGMP is disabled, and no multicast routers are configured CGMP works with Internet Group ocol (IGMP) messages to dynamically configure switch ports so that IP multicast traffic is forwarded associated with IP multicast hosts. It is to join an IP multicast group, it sends an IGMP join message specifying its MAC address and the IP wants to join. The CGMP-capable router then builds a CGMP join message and multicasts the join all-known address.

4. To display CGMP information about VLAN1 which command would you use?

☐ Show cgmp 1

		Show cgmp statistics 1 Show cgmp statistics vlan 1
switch ports so When a host v multicast grou	o tha vants ip it v	IP works with Internet Group Management Protocol (IGMP) messages to dynamically configure t IP multicast traffic is forwarded only to those ports associated with IP multicast hosts. It to join an IP multicast group, it sends an IGMP join message specifying its MAC address and the IP wants to join. The CGMP-capable router then builds a CGMP join message and multicasts the join all-known address.
5. Which	Cis	sco devices would you manage with SPAN?
		Cisco 2501 Cisco 2820 Cisco 3000 Cisco 7000
perform proto technology for	col a r mo	SwitchProbe TM (Switched Port Analyzer) gives superior network management and the ability to nalysis from a single location. The SwitchProbe (Switch Port Analyzer) provides the latest nitoring switch-based networks and helps to reduce the cost of managing these networks. It is Catalyst series switches.
		ies of Cisco products can be used with a catalyst matrix to form a with a 1.12gb capacity? Cisco 2500
		Cisco 2300 Cisco 3000 Cisco 5000 Cisco 7000
		Catalyst Matrix is used to stack up to eight (8) Cisco 3000 series switches together, it has the
280Mbps per	orts u port	sing 50-pin SCSI-2 type connectors (one per port).
The ability to	mov	e packets between switches.
Each port ope	rates	int port arbitration. independently and in parallel (except for multicast).
	Man	naged by the attached Catalyst 3000 units.
Optional redu Modules are h		
Front access to	o fiel	d replaceable Modules.
7. What i		e bus capacity and total system memory of the 1900/2820 series switches?
		500mbs /1.5mb 1gbs / 3mb 1.2gbs / 5mb 1.5gbs / 8mb
Evaluation: 7	D Cho h	it depends on the option boards installed
elements are t	he ca	packplane architecture determines the forwarding rates attainable by the switch. Two critical spacity of the backplane bus and the mechanism for scheduling data transfer over it. The Catalyst et switches use a 1-Gbps high capacity backplane bus. In addition, access to the bus is scheduled in a

Explanation: The backplane architecture determines the forwarding rates attainable by the switch. Two critical elements are the capacity of the backplane bus and the mechanism for scheduling data transfer over it. The Catalyst 1900/2820 Ethernet switches use a 1-Gbps high capacity backplane bus. In addition, access to the bus is scheduled in a pipelined fashion so that no bandwidth is lost to arbitration delays. This enables the switch to implement wire-speed throughput on all its ports. The forwarding engine is implemented entirely in hardware, which, combined with a shared memory architecture, results in a true internally nonblocking switch.

8. What is the maximum distance for a 2820 with a multimode FDDI board installed i
it?
□ 500 meters
□ 1km □ 2km
□ 5km
□ there is no maximum distance
Explanation: the 2820 series switches multimode FDDI board can handle a ATM OC-3 155 Mbps UTP or multimode fiber modules for local or long-distance (up to 2Kms) connectivity, while the single mode fiber is capable of 15km (medium) to 40km (long) reach.
9. What is the maximu distance for a 2820 with a single mode FDDI board installed i it?
□ 500m/2km
□ 7/15km □ 15/40km
□ 21/50km
Explanation: the 2820 series switches may have a single FDDI option board installed, the multimode FDDI board is capable of 2km, while the OC-3 modules with medium reach (15Km) or long reach (40Km). This answer is correct the Cisco TM website, however the book states the correct answer is 10km.
10. Which of the following are features of CWSI? Automatic Switch configuration
Remote Monitoring (RMON) protocol analysis
 Artificial intelligence monitoring software Graphical display for configuring, modifying and managing VLANs
Dial in option for Cisco TAC
Explanation: Cisco Works for Switched Internetworks is a complete management package. Its list of features includ
Graphical display of the physical devices and links in your network
Remote Monitoring (RMON) and protocol analysis, as well as troubleshooting of protocol-related problems Graphical display of Asynchronous Transfer Mode (ATM) switches, physical links, permanent and switched virtual circuits, as well as performance monitoring of ATM switches and links and traffic analysis of RMON-enabled ATM
links End-station and user ID information and tracking database, as well as configuration information from Media Access
Control-Virtual LAN (MAC-VLAN) mapping
Graphical display for configuring, modifying, and managing VLANs Graphical representation of individual devices useable in configuring and monitoring chassis, port, and interface
information
Oh by the way, you can't buy it anymore, but you'll still need to know about it for this exam. Its been replaced by the
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Oh by the way, you can't buy it anymore, but you'll still need to know about it for this exam. Its been replaced by the CiscoWorks 2000 software. 11. Which mode would your switch need to be in to create, modify and delete VLANS.
Oh by the way, you can't buy it anymore, but you'll still need to know about it for this exam. Its been replaced by the CiscoWorks 2000 software.
Oh by the way, you can't buy it anymore, but you'll still need to know about it for this exam. Its been replaced by the CiscoWorks 2000 software. 11. Which mode would your switch need to be in to create, modify and delete VLANS. UTP server

Explanation: VTP server—In this mode, you can create, modify, and delete VLANs and specify other configuration parameters (such as VTP version) for the entire VTP domain. VTP servers advertise their VLAN configurations to other switches in the same VTP domain and synchronize their VLAN configurations with other switches based on advertisements received over trunk links. In VTP server mode, VLAN configurations are saved in nonvolatile memory. VTP server is the default mode.

VTP client---In this mode, VTP clients behave like VTP servers, but you cannot create, change, or delete VLANs on a VTP client. In VTP client mode, VLAN configurations are not saved in nonvolatile memory.

VTP transparent---In this mode, VTP transparent switches do not participate in VTP. A VTP transparent switch does not advertise its VLAN configuration and does not synchronize its VLAN configuration based on received advertisements. However, transparent switches do forward VTP advertisements that they receive from other switches. You can create, modify, and delete VLANs. In VTP transparent mode, VLAN configurations are saved in nonvolatile memory, but they are not advertised to other switches.

12.	Which mode	would	configure	your	switch	assuming	you	did no	t need t	0	create,
	modify and d	lelete V	LANS?								

- □ VTP server
- □ VTP client
- VTP transparent
- □ VTP passive
- More than one of the above

Explanation: VTP server---In this mode, you can create, modify, and delete VLANs and specify other configuration parameters (such as VTP version) for the entire VTP domain. VTP servers advertise their VLAN configurations to other switches in the same VTP domain and synchronize their VLAN configurations with other switches based on advertisements received over trunk links. In VTP server mode, VLAN configurations are saved in nonvolatile memory. VTP server is the default mode.

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13. Which mode would your switch need to be in assuming it did not want to participate in the VTP protocol with other switches on the internetwork?

- □ VTP server
- □ VTP client
- □ VTP transparent
- □ VTP passive
- ☐ More than one of the above

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14. Which	command will set the VTP management domain to "cisco" on a vtp server?
	☐ Set vtp domain cisco
	□ Vtp domain cisco
	□ Set vtp-domain cisco □ Set domain cisco
	DOMAIN DOMAIN-NAME sco.com/univered/cc/td/doc/product/lan/c2900x1/29_35sa6/eescg/mascvtp.htm#xtocid2203112
neep.,, www.eis	ionionii ainvetea, en ai don producti taine 2500 kii 25 _55500, eeseg mase vip.intiin keeta 2205 112
15. Which	ATM components can have increased availablity using SSRP?
	□ LECS
	D LEC
	□ LES □ UNI
	□ BUS
Explanation:	
	on three servers: the LANE configuration server, the LANE server, and the BUS. If any one
	ers fails, the emulated LAN cannot fully function.
	veloped a fault tolerance mechanism known as <i>simple server redundancy</i> that eliminates these
the LANE su	of failure. Although this scheme is proprietary, no new protocol additions have been made to
	r redundancy uses multiple LANE configuration servers and multiple broadcast-and-unknown
	ervers. You can configure servers as backup servers, which will become active if a master
	The priority levels for the servers determine which servers have precedence.
	·
16. To supp	port the LECS redundancy scheme using SSRP, you must adhere to which of
	owing configuration rules.
	☐ Each LECS must maintain the same database of ELANs. Therefore, you must maintain the same
	ELAN database across all the LECSs.
	☐ A BUS cannot be a backup system for a LECS, or a LES because of the potential for system
	over load. You must configure the LECS addresses in the LECS address table in the same order on each ATM
	switch in the network.
	☐ All LECS should be similar systems, running the same software releases.
	☐ When using SSRP with the Well Known Address, do not place two LECSs on the same ATM
	switch. If you place two LECs on the same ATM switch, only one LECS can register the Well Known Address with the ATM switch (through ILMI) and this can cause problems during initialization.
	There are no theoretical limits on the number of LECSs that can be configured using SSRP, however a number is two (one primary plus one backup) or three LECSs (one primary plus two backups). Any
	number is two (one primary plus one backup) of three EEEss (one primary plus two backups). Any ney should be implemented only after very careful consideration because it will add a significant amount
	to the network. This added complexity can result in a substantial increase in the amount of time required
to manage and	troubleshoot such networks.
17 When s	a port reaches the broadcast storm control threshold what happens?
1/. WIICH &	The light for the offending port turns from red to green
	☐ The port may be administratively disabled
	☐ The bridge may send an SNMP trap
	☐ The port is automatically changed to cut through forwarding
Explanation: th	he following are options on the broadcast control menu for a Cisco 2820 switch (but it should be similar

Action upon exceeding broadcast threshold--Define the action to take when the number of broadcast packets reaches the broadcast threshold. The bridge can block or ignore the broadcast storm. During blocking, the bridge drops all

broadcast packets received from a port when the rate of broadcast packets exceeds the broadcast threshold. The bridge begins forwarding again when the rate of broadcast packets received drops below the re-enable threshold. The broadcast rate is measured by the number of broadcast packets received from a port in 1 second.

Generate alert when threshold exceeded--Enable or disable the bridge to generate SNMP alerts (traps). When enabled, the bridge generates an SNMP trap to a management station if broadcast storm control is enabled and the broadcast threshold is exceeded on a port. The action the bridge takes on the port is independent from the generation of the trap. The bridge can generate a maximum of one broadcast control trap per port every 30 seconds.

Broadcast threshold--Set the broadcast threshold. This measurement is the number of packets per second arriving on a port. When this threshold is exceeded, the system blocks the forwarding of packets on the port and generates an SNMP alert, if configured to do so. The broadcast rate is the number of broadcast packets received from a port in 1 second. If the broadcast rate exceeds the specified threshold and broadcast storm control is enabled, the bridge can generate an alert or block broadcast packets received from the port. Valid values range from 10 to 14,400.

Broadcast re-enable threshold--Define when to automatically disable broadcast storm control. The system can continue to forward packets received from a blocked port only when the number of broadcast packets received from the port drops below this re-enable threshold. The re-enable threshold is relevant only if you choose to block broadcast forwarding to control broadcast storms. Valid values range from 10 to 14,400.

18.	Identify	the true	statements	regarding `	VLANs	and si	panning	tree:

- ☐ Cisco VLANs support multiple spanning tree formats including IEEE 802.1D and 802.10
- ☐ With Cisco switches, all VLANs share a common spanning tree
- □ VLANs work at Layer 2 of the OSI model
- ☐ Certain hosts called "DAS" may exist on two VLANs at the same time

Explanation: IEEE 802.1D is spanning tree, 802.10 is a trunking protocol which uses 802.1D. Each VLAN has its own spanning tree. A DAS is a "Dual Attached Station" which is a station attached to a FDDI network that has connections to both the outer and inner rings. While a DAS might participate in a VLAN, because it is a DAS does not mean that it is in a VLAN.

19. How many slots on a Catalyst 5500 series switch?

- **5**
- **a** 7
- **13**
- **□** 15

☐ it depends on the chassis

Explanation: The Catalyst 5500 switch chassis has 13 slots. Slot 1 is for the Supervisor Engine II model which provides switching, local and remote management, and dual Fast Ethernet interfaces. Slot 2 contains an additional redundant Supervisor Engine II in case the first module fails.

A failure of the active Supervisor Engine II is detected by the standby module, which takes control of the Supervisor Engine II switching functions. If a redundant Supervisor Engine II is not required, slot 2 is available for any interface module.

20. Identify the true statements about the Catalyst 5500 series switches:

- \square The Catalyst 5500 has a 3.6-Gbps media-independent switch fabric and a 5-Gbps cell-switch fabric.
- $\ \square$ The Catalyst will load balance between supervisor boards, assuming both boards are the same model.
- □ The backplane provides the connection between power supplies, Supervisor Engine II, interface modules, and backbone module.
- ☐ FDDI and ATM is available with a Supervisor III installed
- ☐ If you have a supervisor III installed in port 2, it will be used instead of the integrated supervisor II in slot 1.

Explanation: In addition to the correct answers above you should also be aware that the Catalyst 5550 3.6-Gbps media-independent fabric supports Ethernet, Fast Ethernet, FDDI/CDDI, ATM LAN Emulation, and RSM modules. In

addition the 5-Gbps cell-based fabric supports an ATM switch processor (ASP) module and ATM port adapter modules (PAMS).

The Cisco Catalyst 5000 series route switch module builds upon the Route Switch Processor (RSP) featured in Cisco's 7500 routing platform. The route switch module provides high-performance multilayer switching and routing services between switched Virtual LANs (VLANs), emulated LANs (ELANs) within an Asynchronous Transfer Mode (ATM) fabric, or across mixed media via an optional Versatile Interface Processor (VIP) and port adapters.

21. Which	of 1	Ease of configuration Broadcast Control Security Redundancy Management High availability
out a particula bridging doma SecurityVL. same physical groups that be inter-VLAN coprovide can be there can be not be performanceCAD/CAM states are vers he or sumproved perfengineering grand betwork manage asier network moves, and chrecabling to experience of the performance of the performan	r poi in, a ANs segn have comme e use o int Tho ation he n format coup gem ange ktence	rJust as switches isolate collision domains for attached hosts and only forward appropriate traffic t, VLANs refine this concept further and provide complete isolation between VLANs. A VLAN is a and all broadcast and multicast traffic is contained within it. provide security in two ways: High-security users can be grouped into a VLAN, possibly on the ment, and no users outside of that VLAN can communicate with them. Because VLANs are logical like physically separate entities, inter- VLAN communication is achieved through a router. When munication occurs through a router, all the security and filtering functionality that routers traditionally decause routers are able to look at OSI Layer 3 information. In the case of nonroutable protocols, er-VLAN communication. All communication must occur within the same VLAN. The logical grouping of users allows, for example, an engineer making intensive use of a networked or testing a multicast application to be assigned to a VLAN that contains just that engineer and the eeds. The engineer's work does not affect the rest of the engineering group, which results in the engineer (by being on a dedicated LAN) and improved performance for the rest of the (whose communications are not slowed down by the engineer's use of the network). **entThe logical grouping of users, divorced from their physical or geographic locations, allows angement. It is no longer necessary to pull cables to move a user from one network to another. Adds, as are achieved by configuring a port into the appropriate VLAN. Expensive, time-consuming to connectivity in a switched LAN environment is no longer necessary because network management cally assign a user from one VLAN to another.
22. Which		the following are ways to configure a VLAN?
		By Port By session By Protocol

Explanation: *By port*---Each port on the switch can support only one VLAN. With port-based VLANs, no Layer 3 address recognition takes place, so Internet Protocol (IP), Novell, and AppleTalk networks must share the same VLAN definition. All traffic within the VLAN is switched, and traffic between VLANs is routed (by an external router or by a router within the switch). This type of VLAN is also known as a *segment-based VLAN*.

By User Defined Value

By Latency

By protocol---VLANs based on network addresses (that is, OSI Layer 3 addresses) can differentiate between different protocols, allowing the definition of VLANs to be made on a per-protocol basis. With network address-based VLANs, it will be possible to have a different virtual topology for each protocol, with each topology having its own set of rules, firewalls, and so forth. Routing between VLANs comes automatically, without the need for an external router or card. Network address-based VLANs will mean that a single port on a switch can support more than one VLAN. This type of VLAN is also known as a *virtual subnet VLAN*.

By a user-defined value---This type of VLAN is typically the most flexible, allowing VLANs to be defined based on the value of any field in a packet. For example, VLANs could be defined on a protocol basis or could be dependent on

a particular IPX or NetBIOS service. The simplest form of this type of VLAN is to group users according to their MAC addresses.

23.	Which	of t	he following list are examples of "in band" management?
			console telnet
			asynchronous modem connection snmp
			anagement means management "through" the network, while out of band management is using the the network (eg: Console and an Asynchronous Modem Connection)
24.			rement(s) about a Cisco 7500 equipped with an RSP and with VIP is true?
	control		The hardware can be configured to switch packets without per packet assistance from the
		VIP	Distributed Switching increases the load on the RSP Using an RSP in combination with VIP cards is only recommended for low speed rfaces such as 56k SMDS.
VIP RSP	controller is primar	base ily fr	d switching frees the RSP from per packet routing, since all subsequent packets are routed by the ed on the route cache. Using an RSP with VIP controllers enables very high performance since the ee from work by the VIP controllers. OS Switching Services, ISBN: 1-57870-053-1 pg: 39
25.			led a Catalyst 2820 switch, connected a network device, and you turned the
	power Catalys		How do you know that the network device is communicating the with the vitch.
	•		The connected port UTL LED is alternating green and amber The port FDUP LED is solid green
		0	The port STAT LED is flashing green/off The port LED is rapidly flashing amber
26.	Which	one	of the following is probable cause for FCS & alignment errors on a
			320 switch ?
			The switch port and the attached device port are both configured for half-duplex mode The switch port and the attached device port are both configured for full-duplex mode The switch port is configured for full-duplex mode and the attached device port is configured half-duplex mode The switch port and the attached device port are both sufficient of full duplex mode and the sale and the sal
		com	The switch port and the attached device port are both configured for full-duplex mode and the cable necting tehem is within the guidelines
27.	2820 o	r 19	that you used a good cable to connect a good device to a working Catalyst 00 switch with 4 VLANs, but the device cannot communicate with vice in the network. What is the most likely cause?
	unounc.		The 2 devices are connected to different ports on the same repeater
			The 2 devices are connected to the same VLAN in the same switch The 2 devices are connected to the same VLAN in the different switches
			The 2 devices are connected to the same VLAN in the same switch

28.	. Which one of the following statements is true about a Catalyst switch firmware upgrade process?					
			The switch upgrade might not respond to commands for a period of 15 seconds during the upgrade Turning the switch off and on during the upgrade process could corrupt the firmware Forwarding of packets continues unaffected during the switch upgrade The switch might not respond to commands for a period as long as 30 seconds during the upgrade			
29.	Which operation		of the following statements is true about the Catalyst 2820 switch			
	•		When you upgrade the firmware for a Catalyst 2820 switch, the FDDI firmware gets automatically raded When you upgrade the firmware for a Catalyst 2820 switch, there is no need to upgrade the FDDI			
		_	ware			
		□ FDI	When you upgrade the firmware for a Catalyst 2820 switch, it has no effect on the installed DI module firmware			
		□ auto	When you upgrade the firmware for a Catalyst 2820 FDDI module, the Catalyst 2820 firmware gets matically upgraded			
30.			of the following is not an option for upgrading the Catalyst 2820 Switch			
			nodule firmware?			
			TFTP client TFTP server			
			Serial connection (Kermit protocol)			
			Serial connection (X modem protocol)			
21	When		ageting a 100haga TV most of a Catalyat 2020 on 1000 assitab to another			
31.			necting a 100base TX port of a Catalyst 2820 or 1900 switch to another nub marked with an X, you must use:			
			AUI-to-AUI cable			
			Cross fiber module			
			Straight through Category 5 UTP cable Crossover Category 5 cable			
		_	Crossover Category 5 casic			
32.	Which	is tl	he correct command sequence to enable IP distributed switching and			
	NetFlov	w s	witching on VIP Interfaces (Assuming a you are using a Cisco 7507)?			
			interface type slot/port-adapter/port			
		ір го	oute-cache [netflow optimum]			
			interface type slot/port-adapter/port			
			oute-cache netflow			
		ip ro	oute-cache [distributed optimum]			
			interface type slot/port-adapter/port			
			oute-cache distributed oute-cache [flow optimum]			
		_				
		ip ro	interface type slot/port-adapter/port oute-cache distributed			
			oute-cache netflow			
Read	son:					

Reason:
Step 1. Specify the interface: interface *type slot / port-adapter / port*Step 2. Enable VIP distributed switching of IP packets on the interface: ip route-cache distributed Step 3. Specify either flow or optimum switching: ip route-cache [flow | optimum]

33. What is the command on a Cisco Switch which enables fast switching for the IP protocol
·
Answer: ip route-cache Reference: Cisco IOS Switching Services, ISBN: 1-57870-053-1 pg: 19
34. True/False: You may specify both the maximum entries, and the expiration for the route cache.
□ True □ False
Reason: Using the "ipx route-cache max-size" and the "ipx route-cache inactivity-timeout" command you may specify the both the maximum size and the inactivity timeout for the route cache Reference: Cisco IOS Switching Services, ISBN: 1-57870-053-1 pg: 19
35. Which type of switching would you use at an ISP to charge back customers based on bandwidth use?
Answer: Netflow Reason: Netflow switching supports the ability to capture accounting statistics for a wide variety of purposes such as network analysis and planning, accounting, and billing. Reference: Cisco IOS Switching Services, ISBN: 1-57870-053-1 pg: 31
36. Which of the following scenarios support NetFlow switching?
□ ISL/VLAN
□ ATM□ IP encapsulated traffic
 □ Frame Relay with more than one input access control list on the interface □ ATM LANE
Reason: NetFlow switching is supported on IP and IP-encapsulated traffic over all interface types and encapsulations, except for ISL/VLAN, ATM, Frame Relay interfaces (when more than one input access control list is used on the interface), and ATM LANE.
Reference: Cisco IOS Switching Services, ISBN: 1-57870-053-1 pg: 32
37. Which of the following things are considered a NetFlow network flow?

Reference: Cisco IOS Switching Services, ISBN: 1-57870-053-1 pg: 33

38. Which are the two versions of the Netflow protocol
□ 1,2
□ 1,5
□ 2,5
\Box there is only one version of the netflow protocol
Reason: Version 1 was the initial release, version 5 was a later enhancement to add Border Gateway Protocol and flow
sequence number. Version 2 through 4 were not released. NetFlow uses UDP datagrams, which a sequence number for
sanity checking.
Reference: Cisco IOS Switching Services, ISBN: 1-57870-053-1 pg: 33
20 Will 4 4 4 4 1 1 1 1 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7
39. Which statement is the proper command to configure an interface on a Cisco 7500
series router.
☐ Interface type slot/port-adapter/port
☐ Interface type slot/port
☐ Interface type port-adapter/slot/port
☐ Interface type port/slot
Reason: interface type slot/port-adapter/port on a Cisco 7500, use interface <i>type slot/port</i> on a Cisco 7200 series router.
Reference: Cisco IOS Switching Services, ISBN: 1-57870-053-1 pg: 38
Reference. Cisco fob bwitching services, lbb/v. 1-5/10/0-055-1 pg. 50
40 XXII 1 1 11 1 1 1 XXII 1 1 1 1 1 1 1 1
40. Which command will display the NetFlow switching statistics for the IP protocol?
·
Answer: Show ip route flow
Reference: Cisco IOS Switching Services, ISBN: 1-57870-053-1 pg: 39
Relationed. Cased 105 Bwitching Services, 15514. 1 37676 053 1 pg. 37
41 When should you use the command "in route cooks some interfece"
41. When should you use the command "ip route-cache same-interface"
When you do not have a VIP card installed in the router
On a partially meshed media such as Frame Relay
When you have multiple protocols configured on a single interface
☐ Whenever you get the "need for speed"
Reason: Although having fast switching on the same ip interface is generally not recommended (because it may
interfere with redirection) it is useful when you have a partially meshed media such as frame relay.
42. Type the statement which disables fast switching for the IP protocol.
42. Type the statement which disables fast switching for the fr protocol.
-
Answer: No ip route-cache
Reason: ip route-cache enables high speed route caching (typically enabled by default), no ip route-cache disables route
caching.
43. What protocols must an interface be running to have fast switching enabled by
default?
☐ Appletalk
□ Netbios

Reason: Fast switcing is enabled by default on all interfaces that support it. Appletalk, Banyan, DecNet, IPX, IOS CLNS, XNS all support fast switching.

44. Which	stat	ement(s) are true about Random Early Detection?
		Traffic is prioritized based on the type of service (TOS). This feature is only available if you have a VIP card installed This feature is available on T3, OC-3, and ATM interfaces This feature is available on any interface faster than 10mbps
		arly Detection is designed for congestion avoidance. Traffic is prioritized based on Type of Service available on T3, OC-3, and ATM.
45. Which	and custo	Packets are forwarded in the same order they arrive at the interface Packets are forwarded based on an assigned priority. The administrator must create priority lists groups to define rules for assigning packets to a priority queue Allocates a percentage of bandwidth for a specified traffic by creating protocol queue lists and om queue lists. Provides automatic traffic priority management, low bandwidth sessions have priority over high rity sessions.
Reason: FIFO	stand	ds for First In, First Out.
46. Which	stat	ement describes Weighted Fair Queuing
	custo	Packets are forwarded in the same order they arrive at the interface Packets are forwarded based on an assigned priority. The administrator must create priority lists groups to define rules for assigning packets to a priority queue Allocates a percentage of bandwidth for a specified traffic by creating protocol queue lists and om queue lists. Provides automatic traffic priority management, low bandwidth sessions have priority over a bandwidth sessions.
Reason: Each	sessi	on is assigned a weight, the higher the weight the lower the priority.
47. Which circuit?		e of queuing is the default for a serial interface connected to a 56kbps
		Weighted Fair Queueing Priority Queuing FIFO Queuing Custom Queuing
Reason: Weig	hted 1	Fair Queuing is the default for all interfaces slower than 2.048mbps

48. Which statement describes Custom Queuing

- A. Packets are forwarded in the same order they arrive at the interface
- B. Packets are forwarded based on an assigned priority. The administrator must create priority lists and groups to define rules for assigning packets to a priority queue
- C. Allocates a percentage of bandwidth for a specified traffic by creating protocol queue lists and custom queue lists.

D. Provides automatic traffic priority management, low bandwidth sessions have priority over high priority sessions.

Explanation: Custom queueing allows a fairness not provided with priority queueing. With custom queueing, you can control the interface's available bandwidth when it is unable to accommodate the aggregate traffic load. Associated with each output queue is a configurable byte count, which specifies how many bytes of data should be delivered from the current queue by the system before the system moves on to the next queue. When a particular queue is being processed, packets are sent until the number of bytes sent exceeds the queue byte count defined by the queue-list queue byte-count command

	nent describes Priority Queueing
□ Pa lists and □ All custom □ Pro	ckets are forwarded in the same order they arrive at the interface ckets are forwarded based on an assigned priority. The administrator must create priority d groups to define rules for assigning packets to a priority queue locates a percentage of bandwidth for a specified traffic by creating protocol queue lists and queue lists. Evides automatic traffic priority management, low bandwidth sessions have priority over high sessions.
was designed to give signatocol (for example during Priority Queuing assigned priority. Pack transmission, the algoris a simple and intuitive to be randomly transfer	Queuing ensures that important traffic gets the fastest handling at each point where it is used. It trict priority to important traffic. Priority queuing can flexibly prioritize according to network IP, IPX, or AppleTalk), incoming interface, packet size, source/destination address, and so on. geach packet is placed in one of four queuesHigh, Medium, Normal, or Low- based on an test that are not classified by this priority-list mechanism fall into the Normal queue. During ithm gives higher-priority queues absolute preferential treatment over low-priority queues. This re approach but can cause queuing delays that the higher-priority traffic might have experienced tred to the lower-priority traffic, increasing jitter on the lower-priority traffic. Higher-priority ted to avoid this problem.
	and will enable NetFlow switching on a Cisco 7500?
□ No □ Pro □ Pro	otocol route-cache flow o protocol route-cache otocol route-cache optimum otocol route-cache distributed
	e-cache flow enables NetFlow switching, No <i>protocol</i> route-cache enables process switching, ptimum enables optimum switching, <i>Protocol</i> route-cache distributed enables distributed
51. Which type o	of switching is the slowest?
□ Di: □ Ne	otimum switching stributed Switching etflow Switching occess Switching
command "no <i>protoco</i>	
generation V	
□ Di	otimum switching stributed Switching etflow Switching

Process Switching

Reason: Distribute switching requires a second generation VIP line cards. To enable distributed switching use the command "protocol route-cache distributed"

53. True/False: The Cisco 7500 has an integrated Route/Switch Processor (RSP) which uses route caching to forward packets?
□ TRUE □ FALSE
Reason: the Cisco 7500 has an integrated RSP which uses route caching to remember which port(s) a packet should be forwarded to.
54. True/False: The Cisco 7500 also uses Versatile Interface Processors (VIP), which are RISC based processors that hand all traffic up to the Route Switch Processor (RSP) to be forwarded?
□ TRUE □ FALSE
Reason: the VIP card makes switching decisions locally using the route cache, thereby decreasing the load on the RSP.
55. Which term accurately describes distributed switching? (1)
 Putting high end routers on the core of the network, and workgroup switches on the distribution area
 Using a combination of workgroup switches on the core and distribution portions of the network Using Versatile Interface Processors to reduce load on the main Route Switch Processor Using multiple Route Switch Processors to reduce load on the Versatile Interface Processors
Reason: Versatile interface processors make switching decisions locally based on the route cache received from the Route Switch Processor.
56. True/False: Multiple VIP cards can be installed in one router?
□ TRUE □ FALSE
Reason: You can have multiple VIP cards in a single router to improve performance.
57. Which of the following can be used to make routing decisions
 □ Link speed □ Media type □ Protocol □ Distance □ current load
Reason: A routing decisions can be based on a variety of information such as link speed, topological distance, and protocol.
58. How many routing tables must a router maintain?

		One master routing table for all protocols One for each protocol One shared routing table for all protocols, then one individual routing table for each protocol One read/write master table, then one read only table for each protocol
Reason: A rou	iter m	aintains one separate routing table for each protocol on the router.
59. Which	of t	he following are Cisco basic switching paths?
		Process Switching Fast Switching Optimum Switching Distributed Switching NetFlow Switching
Reason: Cisco switching.	supp	orts Process Switching, Fast Switching, Optimum Switching, Distributed Switching and NetFlow
60. When	state	ement describes Process Switching?
	fast-	Received packets are copied into the system buffer then the router looks up the layer 3 york address in the routing table and initializes the fast-switch cache The RSP computes the C. The first packet is copied into packet memory and the destination network or host is found in the switching cache. The interface processor computes the CRC. Enabled by default on a 7500. Similar to fast switching, however it must be disabled for debugging. Switching occurs on the VIP which maintains a copy of the routing cache, switch performance roves linearly with the number of VIP cards installed. Cannot be used on a Cisco 7200. Allows you to collect information about accounting, billing, and chargeback for network and ication resource utilization.
61. When	state	ement describes Optimum Switching?
	fast- debu impu	Received packets are copied into the system buffer then the router looks up the layer 3 network less in the routing table and initializes the fast-switch cache. The RSP computes the CRC. The first packet is copied into packet memory and the destination network or host is found in the switching cache. The interface processor computes the CRC. Enabled by default on a 7500. Similar to fast switching, however it must be disabled for agging. Switching occurs on the VIP which maintains a copy of the routing cache, switch performance roves linearly with the number of VIP cards installed. Cannot be used on a Cisco 7200. Allows you to collect information about accounting, billing, and chargeback for network and ication resource utilization.
62. When	state	ement describes Fast Switching?
	addr the f	Received packets are copied into the system buffer then the router looks up the layer 3 network ess in the routing table and initializes the fast-switch cache The RSP computes the CRC. The first packet is copied into packet memory and the destination network or host is found in fast-switching cache. The interface processor computes the CRC. Enabled by default on a 7500. Similar to fast switching, however it must be disabled for debugging. Switching occurs on the VIP which maintains a copy of the routing cache, switch performance roves linearly with the number of VIP cards installed. Cannot be used on a Cisco 7200. Allows you to collect information about accounting, billing, and chargeback for network and ication resource utilization.

63. When statement describes Netflow Switching?

		fast imp	Received packets are copied into the system buffer then the router looks up the layer 3 network ress in the routing table and initializes the fast-switch cache The RSP computes the CRC. The first packet is copied into packet memory and the destination network or host is found in the-switching cache. The interface processor computes the CRC. Enabled by default on a 7500. Similar to fast switching, however it must be disabled for debugging. Switching occurs on the VIP which maintains a copy of the routing cache, switch performance roves linearly with the number of VIP cards installed. Cannot be used on a Cisco 7200. Allows you to collect information about accounting, billing, and chargeback for network and dication resource utilization.
64.	What s	state	ement describes Distributed Switching?
		add fast per 720	Received packets are copied into the system buffer then the router looks up the layer 3 network ress in the routing table and initializes the fast-switch cache The RSP computes the CRC. The first packet is copied into packet memory and the destination network or host is found in the switching cache. The interface processor computes the CRC. Enabled by default on a 7500. Similar to fast switching, however it must be disabled for debugging. Switching occurs on the VIP which maintains a copy of the routing cache, switch formance improves linearly with the number of VIP cards installed. Cannot be used on a Cisco
65.	Which	AS	IC on both line modules and the supervisor engine provides arbitration to
			ing bus among ports and among lines?
			SAGE SAINT SAMBA PHOENIX
66.	Which	two	o applications need queuing? (2)
			Consistent utilization Video Conferencing Lack of Buffers on hosts A congested network Bursty traffic
67.	What i	s th	e purpose of VTP?
			Allows Virtual Terminal sesions Maps trunking ports together A required protocol for all VLANs
68.			command which displays supervisor modules that provides network information
Ans	wer: Sh m	odul	e
69.	True a	bou	t RMON:
			Four groups: stats, history, alarm, event Rmon's can be maintained with software such as CiscoWorks or TrafficDirector RMON is in EARL ASIC Will allow you to monitor/mirror traffic to another port

Explanation: SPAN will allow you to monitor/mirror traffic to another port, RMON is located in the NMP (network management processor).

70.	Which sta	tement is true regarding 802.10 VLANs:
		Defines multiple protocol data unit
		VLAN ID is required
		Header includes clear header & protected header
		Clear header replicates the source address contained in the MAC
71.	Which sw	itch processor uses system software that governs the general control of the
	hardware.	its config and diagnostic routines:
	,	NCP
	_	NMP
	_	MCP
		LCP
72.	Which of	the following are valid switch forwarding methods (3)
		Cut-through
		Cut-through with Fast-forward
		Cut-through with frag free
		2 T T T T T T T T T T T T T T T T T T T
		Hybrid Store and forward
72	XX/1-1-50	00
13.		00 component is similar to a learning bridge
		LTL
		CBL
		Arbiter
	u	EARL
71		
14	Identify th	ne two true statements regarding the Cisco supervisor engine ontions:
/4.	•	ne two true statements regarding the Cisco supervisor engine options:
/4.		C5500 uses only original supervisor engine
/4.		C5500 uses only original supervisor engine Supervisor II supports 2 100mb links
/4.	_ 	C5500 uses only original supervisor engine Supervisor II supports 2 100mb links Supervisor II is faster than Supervisor I
/4.		C5500 uses only original supervisor engine Supervisor II supports 2 100mb links
/4.	_ 	C5500 uses only original supervisor engine Supervisor II supports 2 100mb links Supervisor II is faster than Supervisor I
		C5500 uses only original supervisor engine Supervisor II supports 2 100mb links Supervisor II is faster than Supervisor I Supervisor 2 Supports 1.2gb and 3.6gb backplane
		C5500 uses only original supervisor engine Supervisor II supports 2 100mb links Supervisor II is faster than Supervisor I Supervisor 2 Supports 1.2gb and 3.6gb backplane o tasks should you perform to configure vlan and lan emulation
	which two	C5500 uses only original supervisor engine Supervisor II supports 2 100mb links Supervisor II is faster than Supervisor I Supervisor 2 Supports 1.2gb and 3.6gb backplane tasks should you perform to configure vlan and lan emulation configure vlan administrative parameters
	which two	C5500 uses only original supervisor engine Supervisor II supports 2 100mb links Supervisor II is faster than Supervisor I Supervisor 2 Supports 1.2gb and 3.6gb backplane o tasks should you perform to configure vlan and lan emulation
	which two	C5500 uses only original supervisor engine Supervisor II supports 2 100mb links Supervisor II is faster than Supervisor I Supervisor 2 Supports 1.2gb and 3.6gb backplane tasks should you perform to configure vlan and lan emulation configure vlan administrative parameters configure vtp ports configure atm and lane
	which two	C5500 uses only original supervisor engine Supervisor II supports 2 100mb links Supervisor II is faster than Supervisor I Supervisor 2 Supports 1.2gb and 3.6gb backplane tasks should you perform to configure vlan and lan emulation configure vlan administrative parameters configure vtp ports
75.	which two	C5500 uses only original supervisor engine Supervisor II supports 2 100mb links Supervisor II is faster than Supervisor I Supervisor 2 Supports 1.2gb and 3.6gb backplane o tasks should you perform to configure vlan and lan emulation configure vlan administrative parameters configure vtp ports configure atm and lane configure vlan ports
75.	which two	C5500 uses only original supervisor engine Supervisor II supports 2 100mb links Supervisor II is faster than Supervisor I Supervisor 2 Supports 1.2gb and 3.6gb backplane tasks should you perform to configure vlan and lan emulation configure vlan administrative parameters configure vtp ports configure atm and lane configure vlan ports the following statements are true?
75.	which two	C5500 uses only original supervisor engine Supervisor II supports 2 100mb links Supervisor II is faster than Supervisor I Supervisor 2 Supports 1.2gb and 3.6gb backplane o tasks should you perform to configure vlan and lan emulation configure vlan administrative parameters configure vtp ports configure atm and lane configure vlan ports
75.	which two	C5500 uses only original supervisor engine Supervisor II supports 2 100mb links Supervisor II is faster than Supervisor I Supervisor 2 Supports 1.2gb and 3.6gb backplane tasks should you perform to configure vlan and lan emulation configure vlan administrative parameters configure vtp ports configure atm and lane configure vlan ports the following statements are true? Demand nodes should always be placed as close as possible to their resource nodes Resource nodes should be grouped together for optimum performance
75.	which two	C5500 uses only original supervisor engine Supervisor II supports 2 100mb links Supervisor II is faster than Supervisor I Supervisor 2 Supports 1.2gb and 3.6gb backplane O tasks should you perform to configure vlan and lan emulation configure vlan administrative parameters configure vtp ports configure atm and lane configure vlan ports the following statements are true? Demand nodes should always be placed as close as possible to their resource nodes Resource nodes should be grouped together for optimum performance Demand nodes are always workstations
75.	which two	C5500 uses only original supervisor engine Supervisor II supports 2 100mb links Supervisor II is faster than Supervisor I Supervisor 2 Supports 1.2gb and 3.6gb backplane tasks should you perform to configure vlan and lan emulation configure vlan administrative parameters configure vtp ports configure atm and lane configure vlan ports the following statements are true? Demand nodes should always be placed as close as possible to their resource nodes Resource nodes should be grouped together for optimum performance
75.	which two	C5500 uses only original supervisor engine Supervisor II supports 2 100mb links Supervisor II is faster than Supervisor I Supervisor 2 Supports 1.2gb and 3.6gb backplane O tasks should you perform to configure vlan and lan emulation configure vlan administrative parameters configure vtp ports configure atm and lane configure vlan ports the following statements are true? Demand nodes should always be placed as close as possible to their resource nodes Resource nodes should be grouped together for optimum performance Demand nodes are always workstations
75. 76.	which two	C5500 uses only original supervisor engine Supervisor II supports 2 100mb links Supervisor II is faster than Supervisor I Supervisor 2 Supports 1.2gb and 3.6gb backplane O tasks should you perform to configure vlan and lan emulation configure vlan administrative parameters configure vtp ports configure atm and lane configure vlan ports the following statements are true? Demand nodes should always be placed as close as possible to their resource nodes Resource nodes should be grouped together for optimum performance Demand nodes are always workstations Resource nodes should be placed on segments with other resource nodes
75. 76.	which two	C5500 uses only original supervisor engine Supervisor II supports 2 100mb links Supervisor II is faster than Supervisor I Supervisor 2 Supports 1.2gb and 3.6gb backplane O tasks should you perform to configure vlan and lan emulation configure vlan administrative parameters configure vtp ports configure atm and lane configure vlan ports the following statements are true? Demand nodes should always be placed as close as possible to their resource nodes Resource nodes should be grouped together for optimum performance Demand nodes are always workstations Resource nodes should be placed on segments with other resource nodes tements are true regarding the C3000
75. 76.	which two	C5500 uses only original supervisor engine Supervisor II supports 2 100mb links Supervisor II is faster than Supervisor I Supervisor 2 Supports 1.2gb and 3.6gb backplane O tasks should you perform to configure vlan and lan emulation configure vlan administrative parameters configure vtp ports configure atm and lane configure vlan ports the following statements are true? Demand nodes should always be placed as close as possible to their resource nodes Resource nodes should be grouped together for optimum performance Demand nodes are always workstations Resource nodes should be placed on segments with other resource nodes tements are true regarding the C3000 2 slots for modules
75. 76.	which two	C5500 uses only original supervisor engine Supervisor II supports 2 100mb links Supervisor II is faster than Supervisor I Supervisor 2 Supports 1.2gb and 3.6gb backplane O tasks should you perform to configure vlan and lan emulation configure vlan administrative parameters configure vtp ports configure atm and lane configure vlan ports the following statements are true? Demand nodes should always be placed as close as possible to their resource nodes Resource nodes should be grouped together for optimum performance Demand nodes are always workstations Resource nodes should be placed on segments with other resource nodes tements are true regarding the C3000

78. What Command assigns port 2/1 to VLAN 610 Answer: Set vlan 610 2/1 79. Set up a management domain Set vtp Set domain Set managemetn ☐ Set client 80. How many 10base T ports on a 1912: **a** 8 12 20 48 81. True regarding serial connections through supervisor engine: Port is synchronous Use straight through cable to DTE ☐ Use straight through cable to DCE □ DCE is DB25 82. Transceiver has a max distance of 1.2 miles (2km): □ Multimode ☐ Singlemode (ATM & FE) ☐ Singlemode FDDI CAT 5 83. Which command do you use to enable a LES and a LANE bus for the ELAN: Lane elane name ☐ Lane bus elan-name ☐ Lane les bus elan-name ☐ Lane les bus elan protocol name ☐ Lane server-bus elan-name 84. Switch applications: ☐ Server cluster ■ Workstation cluster □ 10/100mbps workgroups desktop manager 85. Which two rules are true for allocating resources ☐ Local resources should be placed nearest to those users which need them the most global resources should be on their own dedicated segment to enable full 100mbps throughput Two demand segments should not be configured to share one resource segment A five segment network with 4 demand nodes should be configured at the same speed that would

make the switched network unneccessary

□ 40mbs to 700mbps

86. LAN	E mu	lltimode fiber module
		Source is a laser
		Source is a led
		Max distance is 2km Max distance is 10km
		Max distance is 10km
87. Out	of bou	and management examples:
		console
		telnet
		asynchronous modem connection
		snmp
88. Corr	ect or	der of steps for tracing frame through 5000
1. bu	s arbi	ter issues a grant which signals SAINT ASIC to initate data transfer
		t port receives buffer, checks FCS
		ASIC ports request to bus arbiter to transfer frame
		• •
4. A		e is transferred across switch backplane
		3214 4123
	_	2314
		1324
90 Dagg	امانس	salf dualow
og. Desc		nalf duplex Can transmit both directions at the same time
		Each station has a full send and receive channel
		Similar to a one way bridge
		It uses time division to determine which computer gets priority
00 Whi	sh of	the following excitators has full supervisor redunanday with a supervisor II
		the following switches has full supervisor redunandcy with a supervisor II
insta		5000
		5000 5007
		5500
	_	5500
91. Allo		g resource rules
		Resource nodes should be grouped together in workgroups away from demand node traffic
		Demand nodes should be located as close to their primary resource nodes as possible Demand nodes should always have their own dedicated segments
	_	Demand nodes should always have their own dedicated segments
		to Cisco if you have 3 demand segments accessing 1 resource segment it is the same as having them
all in the sa	me coll	ision domain.
02 11/1:	h +	o statements are true recording ADADT9
92. W 110		o statements are true regarding APART?
		Disabling apart increases throughput After disabling apart earl ceases to provide packet forwarding
		After disabling apart earl continues to provide packet forwarding
		Disabling apart decreases throughput

93. Which vlan technology is a standard protocol on a catalyst 5000 that allows you to map trunking protocols together to create a integrated vlan implementation across a user defined management domain

			Isl Lane Vtp Vtam
94	Which	stat	ements are true regarding vlan trunk protocol?
<i>)</i> -	vv men	orout	Vtp information can be distributed to all stations throughout the network including servers, sers, and switches that participate as a vlan configurator VTP provides static reporting for added vlans across the network VTP provides a manual mapping scheme going across mixed media backbones VTP provides auto intelligence for configuring switches across the network
95.	What i	s the	e correct order for tracing a frames progress through a catalyst 5000?
	the app 2. the 6 3. the s switch 4. the f	ether aint ing l	e is transmitted across the switching backplane all ports receive the frame
	and sto		t in their input buffers
			1234 2314 3142 4321
06	Which	ctat	ements are true regarding the store and forward switching methods?
<i>7</i> 0.	VV IIICII		In store and forward switching the switch receives the full frame before beginning to transmit
		it. the f	The switch checks the destination address as soon as it receives the header and begins to forward frame immediately Latency through the switch varies with frame length Latency remains constant regardless of frame length
97	Which	two	statements are true regarding out of band management
			works in conjunction with ppp works in conjunction with slip the out of band management features can be used to provide telnet access to a catalyst switch CLI out of bands management can be used to establish snmp management sessions on an snmp agement platform
	which inform		mand displays the supervisor module that provides network interface
			show arp show int show module show netstat
99.	which	two	statements are true regarding lan emulation components
		□ □ reso	the bus is responsible for handling both broadcasts and multicasts the bus registers and resolves all mac address to atm addresses using the lane emulation address lution protocol

	atm	when a device on the elan has data to send to another device on the elan the sending requests the address of the destination from the bus the les manages the stations that make up the elan
100.		how to use the port priority menu
2001	0	it is used to setup stp priorities for each port it is used to view and change stp path associated with each port use it to setup stp priorities for each port use it to setup and change the stp path associate with each port
101.		Which two statements are true regarding the password on a catalyst 3000?
	<u> </u>	the switch must have the same password as the stack must have a different password than the stack you can delete the password by pressing the sys-req button on the back panel during boot you can delete the 3000 password by pressing esc+del
102. LES) t	usin	Once a LEC has established the ATM address of another LEC (via the g an LE_ARP what type of VCC is used to contract the LEC?
		Point to point control direct VCC Point to multipoint control distribute VCC Point to point data direct VCC
		e a client has joined and ELAN and built its LE_ARP cache, it can establish a VCC to the desired smit packets to that ATM address using a bidirectional point to point data direct VCC.
A. LE B. The C. LE distrib	C see LES for	When a client first joints an ELAN, it must build a ATM address to MAC address table. In which order do the following steps occur? ends LE_ARP to LES (Point to Point VCC) as forwards the response (point to multipoint control distribute) to the LEC rwards LE_ARP to all clients on ELAN (point to multipoint control VCC) tent which recognizes the MAC address responds
Answer: A,C,	,D,B	
104.	0	which command do you use to enable a lec lane emulation client for the
first el	an?	lane client ethernet vlan number elan-name enable lec vlan number elan-name lane ethernet vlan# elan-name enable ethernet lec vlan number elan-name
Explanation: name1]"	To er	nable a LANE client for the first emulated LAN, enter the command "lane client ethernet [elan-
105.		which two statements are true regarding the supervisor engine

		the supervisor engine must be installed in slot 4 the supervisor engine contains the network management process the supervisor engine is the main system process in the switch the supervisor engine contains a layer 3 switching engine
106.	. 4	which two commands allow you to overwrite or erase the switch
parame		
		set show
		clear
		erase
107.	·nta ^c	which switching mode eliminates the chances of fowarding collision
fragme	nts.	Store and forward
		Fast forward
		fragement free
		Fast forward
		Fast frag and forward
100		WHILE A 2000
108.		Which two statements are true regarding the 2820
		Two high speed expansion slots Four high speed expansion slots
		Supports shared memory architecture with a 3mb packet buffer
		Up to 8 vlans allowing ports to be grouped together
109.		Which ASIC is on the supervisor III engine and is a gigabit bridge used to
create	the	crossbar fabric?
		Phoenix
		Sage
		Saint Samba
	_	Samoa
110.		Which cotalyst 5000 switch components is similar to the function of a
	~ h.	Which catalyst 5000 switch components is similar to the function of a
learnin	g oı □	ridge or content addressable memory
		Cbl
		Arbiter
		Earl
111.		Which two statements regarding 802.10 vlans are true? (2)
		The 802.10 said identifies traffic as belonging to a particular vlan
		the 6 byte said allows for 4.29 billion distinct lans the 802.10 said field is used as a vlan id
		the fddi 802.10 said are associated by the catalyst 5000 ethernet vlan's to create multiple broadcast
	don	nains
112.		which transceiver type has a maximum distance of 1.2 miles between
station	s?	
		Multimode
		Single mode atm fe
		Single mode Fddi Category 5

113.	0	Which two statements are true regarding frame tagging (2) Frame tagging is a technique is a technique used to identify frames based on user defined offsets Frame tagging assigns a unique user id to each frame
		A filtering table is developed for each switch A unique identifier is placed in each frame as it is forwarded through the switching fabric
114.		Which two statements regarding demand and resource nodes are true?
		Demand nodes include client applications and terminal services
		Resource nodes include personal computers and workstations Network traffic occurs primarly between demand and resource nodes
		Network traffic occurs mainly between resource and resource nodes
115.		Which two statements are true regarding cat 5000 switch leds
		Leds flash during startup and turn green once initialization is complete
		An orange light can indicate a problem on some modules A purple led indicates failure
		Leds flashing during startup indiciate a lan failure
116.		Which switch processor primarily communicates information between
nmp a	nd t	he line module communication processors distributed on the catalyst 5000
line m	odu	les.
		Ncp Nmp
		Nmp Mcp
		Lcp
117.		Which two statements are true regarding the lane single mode fiber
modul		
		The optical source is a laser The optical source is a led
		The maximum distance is 2km
		The maximum span is 10km
118.		What are the two types of atm addresses?
110.		Icd
		Pop
		Mep Dec
	ū	Nfp
119.		Which catalyst 5000 product has full supervisor redundancy with a
superv	isor	ii installed
		5000 5002
		5200
		5500
120		
120.		which statement(s) are true regarding the embedded rmon agent the embedded rmon mib supports 4 groups: the statistics, history, alarm, and event group
		rmon lets you monitor traffic from across a vlan to a single port for analysis
		rmon solutions which include vlan director, traffic director, cisco view deliver a management
	sysi	tem for growing switch networks the rmon is contained in the earl asic

Explanation: The RMON mib supports 4 groups which are statistics, history, alarms and event group. SPAN (Switched Port Analzyer) lets you monitor traffic from across a VLAN to a single port for analysis. Rmon solutions such as vlan director, traffic director, and cisco view deliver a management system for a growing switched network, the RMON functionality is contained in the NMP (Network Management Processor)

121.		which two statements are true regarding configuring fddi port parameters
		the menu for fddi configuration will be available only if you have the fddi module installed to display the fddi port configuration press F on the main menu
		the ring status is show at the right of the menu indicates if the module has attached to the ring the status has three possible states operation, non-operational, pending
100		
122.		which two statements regarding remote resources are true?
	□ diff	Remote conversation takes place between a demand node and resource node located in erent collision domains
	□ coll:	A remote conversation takes place between a demand node and resource node located in the same ision domain
	☐ fran	The measurement of throughput in a remote conversation is determined by the amount of sactions which can take place
		A switch with multiple segments enables multiple remote conversations between nodes in the same ision domain
123.		Which two are switch applications?
		Server cluster Workstation switch cluster
		10/100 workgroups
		desktop manager
124.		which command sets up a management domain?
		Set vtp Set domain
		Set management
		Set client
1) What a	re t	he conditions of a password a catalyst 3000?
,		only change the password from the console
		EL to clear
The	pas	sword must be at least 6 digits

Notes from CLSC Exam:

- 1. There was a long question about VTP
- 2. There was a long question about queuing methods?
 Allocated based on messages and conditions was one of the choices
- 3. There was a long question about FDDI port parameters? The choices were Menu, Status, Options
- 4. There was a long question about Frame Tagging

Must be the same as the catalyst stack

5. There was a long question about ATM Addresses? The choices were ICD, POP, NCP, DCC, NFP There was a long question about Cut-through techniques? The choices were: store & forward, fast forward, store & free, fast frag & free.