**Exam A**

**QUESTION 1**

Which technology supports the stateless assignment of IPv6 addresses?(Choose two.)

哪些技术支持无状态任务的IPv6地址？

1. DNS
2. DHCPv6
3. DHCP
4. Autoconfiguration

**QUESTION 2**

**QUESTION 21**

What will happen if a private IP address is assigned to a public interface connected to an ISP?

ISP : Internet Service Provider(互联网服务提供商)

1. Addresses in a private range will be not routed on the Internet backbone.
2. Only the ISP router will have the capability to access the public network.
3. The NAT process will be used to translate this address in a valid IP address.
4. Several automated methods will be necessary on the private network.
5. A conflict of IP addresses happens, because other public routers can use the same range.

**QUESTION 33**

What are three benefits of implementing vlans?(choose three)

1. A more efficient use of bandwidth can be achieved allowing many physical groups to use the same network infrastructure
2. Broadcast storms can be mitigated by decreasing the number of broadcast domains,thus increasing their size.
3. A higher level of network security can be reached by separating sensitive data traffic from other network traffic.
4. Port-based vlans increase switch-port use efficient,thanks to 802.1Q trunks
5. A more efficient use of bandwidth can be achieved allowing many logical networks to use the same network infrastructure.
6. Broadcast storms can be mitigated by increasing the number of broadcast domains,thus reducing their size.
7. VLANs make it easier for IT staff to configure new logical groups,because the vlans all belong to the same broadcast domain.

**QUESTION 34**

Which three statements accurately describe layer 2 Ethernet switches?(choose three)

1. Microsegmentation decreases the number of collisions on the network.

A为分割减少冲突的数量，这里是冲突并不是冲突域

1. if a switch receives a frame for an unkown destination,it uses ARP to resolve the address.

B收到未知目的帧会产生泛洪

1. Spanning Tree Protocol allows switches to automatically share vlan information.

C这是vtp的特性，不是stp的

1. In a properly functioning network with redundant switched paths,each switched aegment will contain one root bridge with all its ports in the forwarding state.All other switches in that broadcast domain will have only one root port.

D在一个能够正常运行的网络冗余交换路径，每一个交换网段将包括一个跟桥。所有端口都在转发状态，其 他本广播域的交换机有一个根端口。正确

1. Establishing vlans increases the number of broadcast domains.

E.VLAN增加了广播域。正确

1. Switches that are configured with vlans make forwarding decisions based on both layer 2 and layer 3 address information.

F vlan使转发基于二层和三层IP。题目要求对2层交换机的描述，二层交换机不能基于3层IP转发

**QUESTION 35**

Which two correctly describe steps in the OSI data encapsulation process? (Choose two.)

OSI: 开放系统互联(Open System Interconnection) OSI七层模型

1. The transport layer divides a data stream into segments and may add reliability and flow control information.
2. The data link layer adds physical source and destination addresses and an FCS to the segment.
3. Packets are created when the network layer encapsulates a frame with source and destination host addresses and protocol-related control information.
4. Packets are created when the network layer adds Layer 3 addresses and control information to a segment.
5. The presentation layer translates bits into voltages for transmission across the physical link.

**QUESTION 38**

Which feature can you implement to reserve bandwidth for VoIP calls across the call path?

Voip: （Voice over Internet Protocol）简而言之就是将模拟信号（Voice）数字化，以数据封包（Data Packet）的形式在IP网络(IP Network）上做实时传递。

1. PQ
2. CBWFQ
3. round robin
4. RSVP

**QUESTION 51**

Which statement about RADIUS security is true?

1. It supports EAP authentication for connecting to wireless networks.
2. It provides encrypted multiprotocol support.
3. Device-administration packets are encrypted in their entirety.
4. It ensures that user activity is fully anonymous.

**QUESTION 53**

Which command can you enter to configure an IPV6 floating static route?

1. Router(config)# ipv6 route FE80:0202::/32 serail 0/1 201
2. Router(config)# ipv6 route::/0 serail0/1
3. Router(config)# ipv6 route static resolve default
4. Router(config)# ipv6 route FE80:0202::/32 serail 0/1 1

**QUESTION 59**

What is true about DTP? (Choose Three.)

1. Layer 2 protocol
2. Layer 3 protocol
3. Proprietary protocol
4. enabled by default
5. disabled by default

**QUESTION 61**

What 8-bit field exists in IP packet for QoS?

1. Tos Field
2. DSCP
3. IP Precedence
4. Cos
5. http://bbs.vlan5.com

**QUESTION 66**

Which standards-based First Hop Redundancy Protocol is a Cisco supported alternative to Hot Standby Router Protocol?

1. VRRP
2. GLBP
3. TFTP
4. DHCP

**QUESTION 72**

Which two statements about IPv6 router advertisement messages are true? (Choose two.)

1. They use ICMPv6 type 134.
2. The advertised prefix length must be 64 bits.
3. The advertised prefix length must be 48 bits.
4. They are sourced from the configured IPv6 interface address.
5. Their destination is always the link-local address of the neighboring node.

**QUESTION 73**

Which spanning-tree protocol rides on top of another spanning-tree protocol?

1. MSTP
2. RSTP
3. PVST+
4. Mono Spanning Tree

**QUESTION 75**

Which switching method duplicates the first six bytes of a frame before making a switching decision?

1. fragment-free switching
2. store and-forward switching
3. cut through switching
4. ASIC switching

**QUESTION 76**

Which logging command can enable administrators to correlate syslog messages with millisecond precision?

1. no logging console
2. logging buffered 4
3. no logging monitor
4. service timestamps log datetime msec
5. logging host 10.2.0.21

**QUESTION 81**

Which function of the IP SLAs ICMP jitter operation can you use to determine whether a VoIP issue is caused by excessive end-to-end time?

1. packet loss
2. jitter
3. successive packet loss
4. round-trip time latency

**QUESTION 84**

Which condition does the err-disabled status indicate on an Ethernet interface?

1. There is a duplex mismatch.
2. The device at the other end of the connection is powered off.
3. The serial interface is disabled.
4. The interface is configured with the shutdown command.
5. Port security has disabled the interface.
6. The interface is fully functioning.

**QUESTION 87**

Which statement about LLDP is true?

1. It is a Cisco proprietary protocol
2. It is configured in global configuration mode.
3. The LLDP update frequency is a fixed value.
4. It runs over the transport layer.

**QUESTION 95**

Which feature builds a FIB and an adjacency table to expedite packet forwarding?

1. cut through
2. fast switching
3. process switching
4. Cisco Express Forwarding

**QUESTION 129**

Which technology you will choose to connect multiple sites with secure connections?

1. Point-to-point
2. DMVPN
3. VPN
4. http://bbs.vlan5.com

**QUESTION 136**

Which two statements about MPLS are true? (Choose two)

1. It provides automatic authentication
2. It can carry multiple protocols, including IPv4 and IPv6
3. It encapsulates all traffic in an IPv4 header
4. It uses labels to separate and foward customer traffic
5. It tags customer traffic using 802.1q

**QUESTION 139**

What should be part of a comprehensive network security plan?

1. Allow users to develop their own approach to network security.
2. Physically secure network equipment from potential access by unauthorized individuals
3. Encourage users to use personal information in their passwords to minimize the likelihood of passwords being forgotten.
4. Delay deployment of software patches and updates until their effect on end-user equipment is well known and widely reported
5. Minimize network overhead by deactivating automatic antivirus client updates.

**QUESTION 140**

Which two Cisco IOS commands, used in troubleshooting, can enable debug output to a remote location?(Choose two)

1. no logging console
2. logging host ip-address
3. terminal monitor
4. show logging | redirect flashioutput.txt
5. snmp-server enable traps syslog

**QUESTION 141**

Which component of the Cisco SDN solution serves as the centralized management system?

1. Cisco OpenDaylight
2. Cisco ACI
3. Cisco APIC
4. Cisco IWAN

**QUESTION 154**

What is the binary pattern of unique ipv6 unique local address?

1. 00000000
2. 11111100
3. 11111111
4. 11111101

**QUESTION 229**

For what two purposes does the Ethernet protocol use physical addresses? (Choose two.)

1. to uniquely identify devices at Layer 2
2. to allow communication with devices on a different network
3. to differentiate a Layer 2 frame from a Layer 3 packet
4. to establish a priority system to determine which device gets to transmit first
5. to allow communication between different devices on the same network
6. to allow detection of a remote device when its physical address is unknown