

# Constructing H3C High-Performance Campus Networks

1. The customer requires that during network design, there must be high-reliability equipment in key parts, and the reliability of the equipment should reach 99.999%.

A. MTBF>Y343^; MTTR<U1

B. MTBF>Y699^; MTTR<U1

C. MTBF>Y28 years; MTTR<U1

D. MTBF>Y9 years; MTTR<U1

**Answer(s):** A,B,C

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2. The switch SWA uses the factory default configuration. Now the Ethernet 1/0/1 port of the switch SWA should be configured as a trunk port, the PVID is VLAN20, and VLAN10 is allowed. The following configuration process is correct.

A. [SWA]vlan10 [SWA-vlan10]quit [SWA]vlan 20 [SWA-vlan20]quit [SWA]interface Ethernet 1/0/1 [SWA-Ethernet1/0/1]port access vlan 20 [SWA-Ethernet1/0/1]port link-type trunk [SWA-Ethernet1/0/1]port trunk permit vlan 10

B. [SWA]interfaceEthernet 1/0/1 [SWA-Ethernet1/0/1]port link-type trunk [SWA-Ethernet1/0/1]port trunk pvid vlan 20 [SWA-Ethernet1/0/1]port trunk permit vlan 10 [SWA-Ethernet1/0/1]quit [SWA]vlan 10 [SWA-vlan10]quit[SWA]vlan 20

C. [SWA]vlan10 [SWA-vlan10]quit [SWA]vlan 20 [SWA-vlan20]port Ethernet 1/0/1 [SWA-vlan20]quit [SWA]interface Ethernet 1/0/1 [SWA-Ethernet1/0/1]port link-type trunk [SWA-Ethernet1/0/1]port trunk permit vlan 10

D. [SWA]vlan10 [SWA-vlan10]quit [SWA]vian 20 [SWA-vlan20]quit [SWA]interface Ethernet 1/0/1 [SWA-Ethernet1/0/1]port link-type trunk [SWA-Ethernet1/0/1]port trunk pvid vlan 20 [SWA-Ethernet1 /0/1 ]port trunk permit vlan 10

**Answer(s):** B,D

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3. Regarding the basic concepts of MSTP, the correct statement is

A. CST refers to a spanning tree between regions, which is obtained by running STP/RSTP between MST regions

B. IST is a spanning tree in the MST region, and the instance number corresponding to IST is 0

C. When CST is running, the MST region is regarded as a logical switch, and the root bridge of CST is the domain to which the common root belongs

D. By default, all VLANs in the MST domain are mapped to IST

**Answer(s):** A,B,C,D

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4. Regarding the comparison of RSTP and STP BPDU format, the following statements are correct:

A. In the RST BPDU, the 8 bits of the Flags field have actual meanings

B. RSTP does not separately define the BPDU type for the topology change process

C. The TCA bit is not used in the topology change process defined by RSTP

D. In the RST BPDU, the P/A flag in the Flags field is used for the root port fast switching mechanism

**Answer(s):** A,B,C

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5. The two routers are connected through a LAN to form a VRRP backup group. The configuration on each interface is as follows:

A. Both RTA and RTB are in VRRP Initialize state

B. RTA is the master router of the backup group

C. RTB is the master router of the backup group

D. RTA and RTB are both in VRRP Master state

**Answer(s):** A

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6. The RRPP ring main ring 1 is formed on the customer LAN switches SWA, SWB, and SWC, which can be known from the above information

A. If the switch SWB is a transmission node and is in the Preforwarding state, it cannot receive the Complete-Flush-FDB message from the master node within the specified time, and releases the temporarily blocked port by itself

B. If the switch SWA is the master node, it sends a Complete-Flush-FDB message in the Failed state to notify all transmission nodes to refresh FDB

C. If the switch SWB is a transmission node and is in the Preforwarding state, it cannot receive the CommonFlush-FDB message from the master node within the specified time, and releases the temporarily blocked port by itself

D. If the switch SWA is the master node, a Common-Flush-FDB message is sent in the Failed state to notify all transmission nodes to refresh FDB

**Answer(s):** A,D

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7. The following statements about PIMSM shared network segment DR are correct:

A. The DR on the multicast source side is responsible for sending register messages to the RP

B. The DR on the multicast source side must run IGMP, otherwise the receiver on the receiver side cannot receive multicast traffic

C. Only when there are multiple routers on the receiver side connected to the shared network segment and the routers are running IGMPV1, DR elections are required

D. The DR on the receiver side is responsible for sending a join message to the RP

**Answer(s):** A,D

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8. Before configuring the `bpdu-tunnddotlq stp` command on the port where the QinQ function of the H3C series switch is enabled, the command that must be configured on this port is

A. `stp disable`

**Answer(s):** A

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9. Regarding the working principle of IGMP-Snooping, the correct one is

A. By listening to IGMPReport messages, IGMP-Snooping adds ports to known multicast groups or creates new multicast forwarding entries

B. Layer 2 devices rely on IGMP-snooping to listen to IGMP messages and maintain multicast address forwarding entries at Layer 2.

C. IGMP-Snooping determines the routing port by listening to IGMPQuery messages

**Answer(s):** A,B,C

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10. In the switching network as shown in the figure, set VLAN10 as Isolate-userW, VLAN2 and VLAN3 as the Secondary VLAN of VLAN 10 on the switch SWA; create VLAN2? VLAN20 on the switch SWB, and set VLAN20 as Isolate-user-vlan, VLAN4 As the Secondary VLAN of VLAN20, after setting the IP address of each device as shown in the figure, check the MAC address table on the SWA, and you can determine that the PCC belongs to

A. VLAN 10

B. VLAN 1

C. VLAN4

D. VLAN3

E. VLAN20

F. VLAN2

**Answer(s):** A

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11. When the IGMPV2 host leaves a multicast group, it will send a LeaveGroup message, which is correct as follows:

A. The destination address of the Leave message is 224.0.0.2

B. The destination address of the Leave message is the same as the GroupAddress address in the message

C. The query router immediately sends a specific group query message after receiving the Leave message

D. The query router immediately deletes the multicast group entry of the related Group after receiving the Leave message

**Answer(s):** A,C

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12. The customer purchases a router equipment. If the performance index of the router is MTBFW5000 and MTTRSOQ 5, the reliability of the router is

A. 99.99%

B. 99.9%

C. 99.999%

D. 99.9999%

**Answer(s):** A

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13. In the networking shown in the figure, the PIM SM protocol runs between RT1, RT2, and RT3, the RP is 1.1.1.1 There is a multicast source connected to the downstream interface of RT1 and RT2, and there are downstream receivers on the RP, then when the RP sends After registering the stop message, which of the following routers have (S, G) entries

A. RT3

B. RT2

C. RT1

**Answer(s):** A,B,C

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**14.** In the switching network as shown in the figure, VLAN10 is set as Isolate-user-vlan on switch SWA, VLAN2 and VLAN3 are set as Secondary VLAN of VLAN 10; VLAN2-VLAN20 is created on switch SWB, and VLAN20 is set as Isolate-user-vlan , VLAN4 is the Secondary VLAN of VLAN20. After setting the IP address of each device as shown in the figure, the following statement is correct (choose one or more)

A. The PCA packet comes out of the GigabitEthernet1/0/3 port of SWA and enters the GigabitEthernet1/0/3 port of SWB, and the VLAN Tag carried is VLAN2

B. SWB packets enter from SWA's GigabitEthernet1/0/3 port, and after exiting from GigabitEthernet1/0/1 port, the VLANTag carried is VLAN2

C. When SWB accesses PCA, the VLAN tag carried by GigabitEthernet1/0/4 of SWB is VLAN 1

D. The packet of PCA enters from the GigabitEthernet1/0/1 port of SWA, and does not carry the VLAN tag after exiting from the GigabitEthernet1/0/3 port

**Answer(s):** D

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**15.** Regarding the relationship between RSTP and STP, the correct statement is

A. RSTP can implement load sharing of data of different VLANs on Trunk links on the basis of STP

B. RSTP has all the functions of STP, but it only uses one type of BPDU

C. RSTP is defined in the old IEEE802.1 D standard, and its protocol thinking is the same as STP, but the convergence time is improved

D. The switch running RSTP can work with the switch running STP and improve the convergence time of STP

**Answer(s):** B

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**16.** As the network management director of a certain company, Mr. Wang adheres to the following network technology and network equipment selection and application principles in network construction. As a network engineer, you think the selection and application of those technologies are not good for network management.

A. The network equipment is provided by at least three different manufacturers

B. All devices are required to support standard topology discovery protocol

C. The routing protocol must choose a standard dynamic routing protocol

D. Each manufacturer's network equipment must use its own network management system for management

**Answer(s):** A,D

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**17.** Which of the following descriptions about remote port mirroring are correct?

A. The ProbeVLAN of remote port mirroring should prohibit MAC address learning

B. Remote port mirroring must include the mirror source and destination switch

C. The reflection port of remote port mirroring is essential

**Answer(s):** A,B

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**18.** As shown in the title picture, SWA, SWB, SWC and SWD enable STP. SWA, SWB and SWC form a loop. After the topology is stable, connect SWD and SWB. Assuming the same link overhead, the process of topology change of STP is The following statements are correct

A. SWB will send TCN BPDU from port E0/2

B. SWD will send TCN BPDUs from port E0/1

C. If the link between SWB and SWC is interrupted, both SWB and SWC will send TCN BPDUs from port E0/2

D. If the link between SWC and SWA is interrupted, SWC will send out TCN BPDU from port E0/3

**Answer(s): A**

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**19.** Which statement is correct about the communication between switch VLANs?

A. After the two-layer switch divides VLANs, hosts in different VLANs can communicate with the router by using an interface to connect the trunk port of the switch, and the router must support the 802.1Q protocol

B. The hosts in the VLAN divided by the switch can communicate, but the hosts in the VLAN cannot communicate

C. After the two-layer switch divides VLANs, hosts in different VLANs can use routers to realize communication. The method is that there is a physical interface and a physical connection between the router and each VLAN.

D. After the three-layer switch divides VLANs, hosts in different VLANs can communicate. The method is that the three-layer switch creates a virtual three-layer VLAN interface for each VLAN, and the VLAN interface needs to be configured with the corresponding IP address

**Answer(s): A,B,C,D**

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**20.** The following statements about PIMSSM are correct

A. The multicast packet reaches the receiver along the SPT between the multicast source and the receiver

B. To be compatible with the earlier version of IGMP, the receiver in PIMSSM also uses IGMP V2 to send join messages



C. PIMSSM can be simply viewed as similar to PIMSM. After the host sends a join message, the device sends a (\*, G) join message to the multicast source

D. Compared with PIMSM, PIMSSM does not require RP, which improves message forwarding efficiency

**Answer(s):** A,D

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