

# Huawei

## Exam HC-224

**Huawei Certified Datacom Professional - Fast Certification – ENU**

Version: 6.1

**[ Total Questions: 577 ]**

**Topic 1, Volume A****Question No : 1 - (Topic 1)**

On the MSTP network as shown in the figure, what is the role of the switch in MSTI 1 according to the configuration?

- A. Root switch
- B. Slave switch
- C. Non-root switch
- D. None of the above

**Answer: A**

**Question No : 2 - (Topic 1)**

As shown in the figure, which switch is the root switch according to the configuration?

- A. SWA
- B. SWB
- C. SWC
- D. None of the above

**Answer: A**

**Question No : 3 - (Topic 1)**

If an MSTP switch detects that the neighboring switch works in RSTP mode, which mode does the MSTP switch work?

- A. STP mode
- B. RSTP mode
- C. MSTP mode
- D. All of the above

**Answer: B**

**Question No : 4 - (Topic 1)**

Which problems on a single spanning tree network can be solved by MSTP? (Select 3 Answers)

- A. Traffic forwarding paths in some VLANs are faulty.
- B. Traffic cannot be load balanced.
- C. The second best path problem may occur.
- D. The network reliability cannot be improved.

**Answer: A,B,C**

**Question No : 5 - (Topic 1)**

According to the figure, what is the status of Ethernet1/0/13 in MSTI 1?

- A. Forwarding
- B. Discarding
- C. Learning
- D. None of the above

**Answer: B**

**Question No : 6 - (Topic 1)**

In RSTP, which statements about the alternate port and backup port are true? (Select 2 Answers)

- A. The alternate port is a backup of the root port.
- B. The backup port is a backup of the designated port.
- C. The switch that the backup port belongs to is not the designated switch on the network segment connected to the interface.
- D. The switch that the alternate port belongs to is the designated switch on the network segment connected to the interface.

**Answer: A,B**

**Question No : 7 - (Topic 1)**

According to the MSTP protocol, each MST instance calculates an independent spanning tree by using the RSTP algorithm.

- A. True
- B. False

**Answer: A**

**Question No : 8 - (Topic 1)**

The following is the command output on a root switch of an MSTP region. How many switches are located in the MSTP region? ( )

- A. Less than 10
- B. Less than 20
- C. Less than 30
- D. Less than 40

**Answer: C**

**Question No : 9 - (Topic 1)**

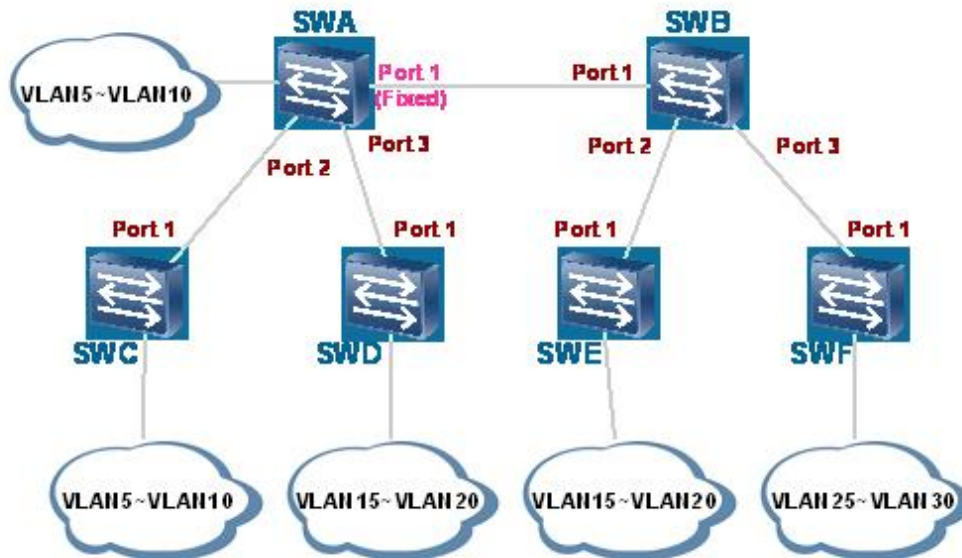
On the RSTP network with STP devices, which packets does an RSTP switch use to notify the STP switches of the topology change?

- A. RSTP BPDUs with the TC flag
- B. STP BPDUs with the TCN flag
- C. RSTP BPDUs with the TCA flag
- D. STP BPDUs with the TCA flag

**Answer: B**

**Question No : 10 - (Topic 1)**

What are the same fields in RSTP BPDUs and STP BPDUs? (Select 2 Answers)



- A. TCN
- B. TC
- C. TCA
- D. All of the above

**Answer: B,C**

#### Question No : 11 - (Topic 1)

On the RSTP network as shown in the figure, what RSTP operations will occur after the E1 port of SWB fails? (Select 3 Answers)

- A. SWB deletes the MAC address entries with the E1 port as the destination interface.
- B. The spanning tree is recalculated and the E2 port is elected as the new root port.
- C. All the interfaces in forwarding state send topology change notifications (TCNs) to notify other switches of the topology change.
- D. All the non-edge ports in forwarding state send TCNs to notify other switches of the topology change.

**Answer: A,B,D**

#### Question No : 12 - (Topic 1)

Which is the port state defined in RSTP?

- A. Discarding
- B. Learning
- C. Forwarding
- D. All of the above

**Answer: D**

**Question No : 13 - (Topic 1)**

RSTP has all functions that STP has and it is backward compatible with STP.

- A. True
- B. False

**Answer: A**

**Question No : 14 - (Topic 1)**

RSTP adopts fast convergence mechanism. So, there is no Forward Delay interval in RSTP.

- A. True
- B. False

**Answer: B**

**Question No : 15 - (Topic 1)**

Two switches are directly connected to each other and they are working in full duplex mode. By default, RSTP will consider the link between the switches as point-to-point link.

- A. True
- B. False

**Answer: A**

**Question No : 16 - (Topic 1)**

In RSTP network environment, a port can be set as edge port when it is directly connected with terminal.

- A. True
- B. False

**Answer: A**

**Question No : 17 - (Topic 1)**

Which of the following statements about RSTP and STP is true?

- A. STP has more port states than RSTP.
- B. The port roles used in RSTP is less than the port roles used in STP.
- C. Since RSTP adopts fast convergence mechanism, it does not have Learning state which is available in STP.
- D. Same as STP, the ports will enter into Listening state once the RSTP has been enabled. Then, the ports can receive BPDU and calculate the spanning tree.

**Answer: A**

**Question No : 18 - (Topic 1)**

In a switching network that runs RSTP, the topology change notification message will not be sent when the switch detects that the Alternate Port is failed.

- A. True
- B. False

**Answer: A**

**Question No : 19 - (Topic 1)**

When the topology of a network running RSTP changes, what happens after the change?

- A. Flooding on the entire network.
- B. The aging time of MAC address entries is changed.
- C. Some MAC address entries are deleted.
- D. All of the above

**Answer: C**

**Question No : 20 - (Topic 1)**

Which ports defined by RSTP cannot work in Forwarding state? (Select 2 Answers)

- A. Root Port
- B. Designated Port
- C. Backup Port
- D. Alternate Port

**Answer: C,D**

**Question No : 21 - (Topic 1)**

On an RSTP network, when an edge port is in protected state, what operation is performed after the edge port receives BPDUs?

- A. The edge port forwards BPDUs.
- B. The edge port discards BPDUs.
- C. The edge port is shut down.
- D. The edge port obtains required information from BPDUs.

**Answer: C**

**Question No : 22 - (Topic 1)**

In RSTP, the port status can be discarding and learning. Which statements about the port status are true? (Select 2 Answers)

- A. The port in discarding or learning state does not forward data frames.
- B. The port in discarding state does not learn MAC addresses.



- C. The port in learning state does not learn MAC addresses.
- D. All of the above

**Answer: A,B**

**Question No : 23 - (Topic 1)**

On the RSTP network as shown in the figure, what is the port role of SWC E0/1 according to the configuration? (Select 2 Answers)

- A. Designated port
- B. Root port
- C. Alternate port
- D. Edge port

**Answer: A,D**

**Question No : 24 - (Topic 1)**

As shown in the figure, when the link between SWC and LAND is faulty, through which path are TCA BPDUs sent?

- A. From SWA to SWB
- B. From SWB to SWC
- C. From SWB to SWA
- D. From SWC to SWB

**Answer: B**

**Question No : 25 - (Topic 1)**

As shown in the figure, when the STP network runs properly, which device does the designated port of LANC reside ( )

- A. SWA
- B. SWB
- C. SWC

D. None of the above

**Answer: B**

**Question No : 26 - (Topic 1)**

In STP configuration, which statement about BPDUs is true?

- A. BPDUs cannot be sent from the designated port.
- B. BPDUs can be sent only from the designated port.
- C. BPDUs can be sent from any port.
- D. None of the above.

**Answer: B**

**Question No : 27 - (Topic 1)**

On an STP network, after the network topology changes, which BPDUs are sent during flooding of topology change information on the entire network?

- A. BPDUs with the TCN flag
- B. BPDUs with the TCA flag
- C. BPDUs with the TC flag
- D. All of the above

**Answer: D**

**Question No : 28 - (Topic 1)**

After an STP switch starts, it considers itself as the root switch. Which statements about BDU parameter setting are true? (Select 3 Answers)

- A. The switch is the designated root.
- B. The designated cost is 0.
- C. The switch is the designated bridge.
- D. The designated port is 0.