

Advanced Enterprise Solutions Overview

1. (Single Choice) An administrator connects two switches together in a local enterprise network. The ports of one switch support Fast Ethernet, while the ports of the other switch support Gigabit Ethernet. Hosts connected to one switch are able to communicate, however communication between the two switches fails. What is the possible reason for this?

- A. The ports have disabled auto-negotiation.
- B. One port is supporting auto-negotiation, while auto-negotiation is disabled on the port of the other switch.
- C. The port of one switch is operating using half duplex mode, while the port of the other switch is using full duplex mode.
- D. A Fast Ethernet port cannot communicate directly with a Gigabit Ethernet port.

Link Aggregation

1. (Single Choice) () combines “multiple” ports to form an aggregation group. It can be used to balance the traffic among member ports and improve the connection reliability.

- A.Port Aggregation
- B.Port binding
- C.Port load balance
- D.Port group

2. (Multiple Choice) What benefits does port aggregation yield? (Select 3 Answers)

- A.Improves link bandwidth
- B.Implements load sharing
- C.Improves network reliability
- D.Facilitates data copy for analysis

3. (Single Choice) () What is the maximum number of member interfaces supported by a single Eth-Trunk?

- A.6
- B.8
- C.10
- D.12

4. (Multiple Choice) () The Eth-Trunk frame forwarding mechanism used to prevent changes in the data sequence forwards frames based on which of the following parameters?

- A. The same source or destination IP address
- B. The same source or destination MAC address.

- C. The same protocol type.
 - D. The same source or destination port number.
5. (Single Choice) () In Layer 2 mode, the transmission rate of an Eth-Trunk interface is determined by which of the following?
- A. Maximum number of Up member links
 - B. Minimum number of Up member links
 - C. Number of Up member interfaces
 - D. Number of interfaces.
6. (Single Choice) () The network administrator wishes to forward data over an Eth-trunk, however associated member interfaces operate at different rates. In terms of the resulting behavior, which of the following is true?
- A. The two switches will not be able to communicate.
 - B. The higher rate member interfaces may incur packet loss.
 - C. The Eth-Trunk will work normally.
 - D. The lower rate member interfaces may incur packet loss.
7. (Multiple Choice) () The network administrator attempts to add interface G0/0/1 on Switch A to Eth-trunk 1, however the command fails. Which of the following may cause this?
- A. The interface is operating in half-duplex mode.
 - B. The interface has been shutdown.
 - C. The interface is already associated with another Eth-trunk.
 - D. The interface is an access port.

VLAN Principles

1. (Single Choice) According to IEEE802.1Q, where is VLAN ID in the tagged Ethernet frame?
- A. Not fixed
 - B. In front of the source MAC address and destination MAC address
 - C. Behind the source MAC address and destination MAC address
 - D. Between the source MAC address and destination MAC address
2. (Single Choice) A VLAN can be considered as a ().
- A. Collision domain
 - B. Broadcast domain
 - C. Management domain
 - D. Blocking domain
3. (Single Choice) Which of the following standards is defined by IEEE to regulate the implementation of VLAN between switches?
- A. 802.1x
 - B. 802.1d

C.802.1q

D.802.3

4. (Single Choice) Which of the following technologies can reduce the scope of broadcast domain?

A.VLAN

B.Trunk

C.RARP

D.STP

5. (Single Choice) For VLAN link type,the link between a switch and a PC is ().

A.Access link

B.Trunk link

C.Hybrid link

D.ISL link

6. (Single Choice) A switch supports 802.1Q protocol, what is the maximum number of VLAN it can support?

A.512

B.1024

C.2048

D.4096

7. (Single Choice) VLAN is short for?

A.Virtual local area network

B.Virtual long area network

C.Virtual local area networking

D.Virtual long area networking

8. (Multiple Choice) Which of the following are the formats of Ethernet frame in the switching network? (Select 2 Answers)

A.Untagged frame

B.Token frame

C.Tagged frame

D.FDDI frame

9. (Multiple Choice) To implement network layer capability on the VLAN interface, we need to configure () on VLAN interface. (Select 2 Answers)

A.IP address

B.MAC address

C.Subnet mask

D.IP prefix

10. (Single Choice) On VRP platform, what is the function for command "interface vlan-interface vlan-id"?

A.Create a VLAN

B.Create or enter VLAN interface

C.Configure VLAN for an interface

D.No such command

11. (Single Choice) How many bytes does a VLAN tag consist of?

- A.2
- B.3
- C.4
- D.5

12. (Multiple Choice) After the VLAN function is introduced to the Ethernet, the ports on a switch can be classified into (). (Select 3 Answers)

- A.Access port
- B.Trunk port
- C.Hybrid port
- D.None port

13. (Single Choice) A Trunk port always sends tagged frames to the peer equipment.

- T.True
- F.False

14. (Single Choice) A VLAN in the Ethernet is used to separate ().

- A.Layer 2 unicast domain
- B.Layer 2 broadcast domain
- C.Layer 2 multicast domain
- D.Layer 2 MAC address

15. (Single Choice) During frame forwarding, a switch checks the VLAN tag carried in an Ethernet frame and then determines whether to forward the Ethernet frame through a port if the VLAN tag is a () of this port.

- A.Permitted tag
- B.Default PVID
- C.MAC address equivalence
- D.STP disable state

16. (Multiple Choice) After an Ethernet frame uses a VLAN tag, the Ethernet frame can be expressed in two formats, namely, () and () in a switched network. (Select 2 Answers)

- A.Untagged frame
- B.Tagged frame
- C.Row frame
- D.Column frame

17. (Single Choice) VLAN tagged frame has extra () bytes compared with standard Ethernet frame?

- A.4
- B.32
- C.12
- D.8

18. (Single Choice) How many bits are used to identify the VLAN id of the data frame?

- A.4

- B.32
- C.12
- D.8

19. (Single Choice) The fixed value of the TPID field in VLAN tag is ().

- A.0x8100
- B.0x0800
- C.0x0806
- D.0x9100

20. (Multiple Choice) Which of the following are the advantages of VLAN compared with traditional LAN technology? (Select 3 Answers)

- A.Lower cost for relocation and changes
- B.Isolate broadcast domain and control the broadcast packets
- C.Improve the network security
- D.Enhance the network high available

21. (Single Choice) A port of the switch belongs to VLAN 5. If VLAN 5 is removed by using command "undo vlan 5", then which VLAN does this port belong?

- A.0
- B.1
- C.1023
- D.1024

22. (Multiple Choice) Which of the following methods can realize communication between VLANs at network layer? (Select 2 Answers)

- A.STP
- B.GVRP
- C.L2 Switch+Router
- D.L3 Switch

23. (Single Choice) Workstation A and workstation B are respectively connected to two ports of a switch. Assume the MAC table of the switch is empty now. Which of the following statements is true as soon as the switch receives the first packet sent by Workstation A to Workstation B?

- A.The switch will learn address of A
- B.The switch will learn address of B
- C.The switch will not learn any address
- D.The switch will learn addresses of both A and B

24. (Multiple Choice) Which of the following descriptions are correct about VLAN interface? (Select 2 Answers)

- A.A virtual interface is required to be created for the VLAN if we want to assign an IP address for that VLAN,
- B.Two VLAN interfaces on the same switch can be assigned with the same IP address
- C.The VLAN interface number must be the same with VLAN ID
- D.The VLAN interface can be configured for the non-existed VLAN

25. (Multiple Choice) An access port on a switch generally connects to a port on a computer. Which of the following statements are true? (Select 3 Answers)

- A. After receiving a tag packet, the switch forwards it directly.
- B. The default VLAN of an access port is the VLAN where the port is located. You do not need to manually configure a default VLAN for an access port.
- C. An access port can belong to only one VLAN.
- D. After receiving an untag packet, the access port attaches its PVID information to the packet.

26. (Single Choice) What action does a Trunk port take after it receives an untag packet?

- A. Discards the packet directly.
- B. Attaches its trunk VLAN ID to the packet and then sends out the packet.
- C. Sends out the packet directly without adding the tag information to the packet.
- D. Attaches its PVID information to the packet and then sends out the packet.

27. (Multiple Choice) Which of the following statements are true after a Trunk port receives a tag packet? (Select 2 Answers)

- A. Checks whether the Trunk port allows the tag packet to pass through.
- B. Transparently transmits the tag packet.
- C. Discards the tag packet directly if the Trunk port does not allow the tag packet to pass through.
- D. Attaches its PVID information to the packet and then sends out the packet.

28. (Multiple Choice) Which of the following statements about VLAN communication are true? (Select 2 Answers)

- A. One-arm routing can be configured for a Layer 3 switch only by using a router to implement VLAN communication.
- B. One-arm routing can be configured for a Layer 2 switch only by using a router to implement VLAN communication.
- C. Layer 3 VLAN interfaces can be configured on a Layer 3 switch to implement VLAN communication.
- D. Layer 3 VLAN interfaces can be configured on a Layer 2 switch to implement VLAN communication.

29. (Multiple Choice) Which of the following statements about the advantages of the VLAN function are true? (Select 2 Answers)

- A. The VLAN function reduces network costs by reducing the number of physical ports on switches.
- B. The VLAN function improves network security by identifying users that are allowed to access sensitive data and applications.
- C. The VLAN function improves network performance by implementing flow control and using the window advertisement mechanism.
- D. The VLAN function divides a network into several small logical networks, reducing the impact of a broadcast storm on a network.

30. (Multiple Choice) A frame tag adds () to each frame so that the frame can be transmitted through Trunk ports on switches.

- A. Destination MAC address
- B. Source MAC address of a switch

C.VLAN ID

D.Bridge ID of a switch

31. (Multiple Choice) Which of the following are the features of the default VLAN setting in a switch configuration? (Select 2 Answers)

A.The default VLAN cannot be deleted manually.

B.By default, the ports on all switches are member ports of a default VLAN.

C.A default VLAN must be created before a port is allocated to a VLAN.

D.The IP address configured for a switch is applied only to a member port in the default VLAN.

32. (Multiple Choice) Which of the following statements about VLAN are true? (Select 2 Answers)

A.In the switch configuration, if the default VLAN is VLAN 1, it cannot be deleted or renamed.

B.A switch supports a maximum number of 255 VLANs.

C.A “single” access port can pass through “multiple” VLANs.

D.“Multiple” VLANs can pass through a “single” trunk.

33. (Single Choice) Switch-A and Switch-B are configured with ports in VLANs for R&D Department, Sales Department, Product Department, Financial Department, and HR Department. Each VLAN contains 20 users. In this case, how many subnets at least are required to provide routes between all VLANs?

A.5

B.20

C.50

D.100

34. (Single Choice) Of all the VLAN grouping methods, the grouping method by IP address is called () VLAN.

A.Port-based

B.Route-based

C.MAC address-based

D.Policy-based

35. (Single Choice) Which VLAN does an access port of a switch belong to?

A.The only defined VLAN

B.The VLAN with the greatest No.

C.All VLANs

D.The VLAN with the smallest No.

36. (Single Choice) A network administrator wants to divide the hosts in building A into VLAN 3 and VLAN 5. Which of the following statements about VLAN configuration is true?

A.VLAN information is saved automatically in the starting configuration.

B.After VLAN 3 and VLAN 5 are created manually, the default VLAN is removed automatically.

C.The network administrator can create a VLAN either in the global view or in the VLAN view.

D.The two VLANs can be named BUILDING_A to differentiate them from the VLANs in other geographical areas.

37. (Multiple Choice) Which of the following statements are true in the process of deleting a VLAN? (Select 2 Answers)

A.The member port of a VLAN becomes inactive after the VLAN is deleted.

B.When a routing-based interface (Vlanif) is available for a VLAN, the Vlanif interface must be deleted before the VLAN is deleted.

C.A network administrator can delete a VLAN either in the global view or in the VLAN view.

D.A VLAN can be deleted only after its member port is allocated to another VLAN.

38. (Multiple Choice) Which of the following statements about the process of creating a VLAN are true? (Select 2 Answers)

A.The member port of this VLAN enters the active state immediately.

B.A routing-based interface (Vlanif) can be created for a VLAN only after the VLAN is created.

C.A network administrator can create a VLAN either in the global view or in the VLAN view.

D.A VLAN can be created only after its member port is allocated to another VLAN

39. (Multiple Choice) Which of the following steps are necessary to configure a port to the specified vlan in SYSTEM view? (Select 2 Answers)

A.Enter the VLAN view

B.Specify proportion of broadcast storm for VLAN

C.Specify description for VLAN or VLAN interface

D.Assign VLAN for the Ethernet port

40. (Single Choice) Information below shows the partial interface configuration on a Huawei switch. According to this configuration, PVID of this interface is ().

[Quidway\]display interface Ethernet 1/0/1

Mdi type: auto

Port link-type: access

Tagged VLAN ID: none

Untagged VLAN ID: 5

A.0

B.1

C.5

D.Not able to interpret the PVID from the information given

41. (Single Choice) Which of the following ports can be configured to permit VLAN to pass? (Select 2 Answers)

A.Trunk

B.Access

C.Hybrid

D.Normal

42. (Multiple Choice) A trunk port is configured to permit vlan 3, vlan4 and vlan 5 to pass. The frames of vlan 3 and vlan 4 are tagged but the frames of VLAN 5 are untagged. Which of the following may cause the problem?

- A.Port PVID is 5
- B.Port PVID is 3 and 4
- C.Only the command "port trunk permit vlan 3 4 "was configured for the trunk port.
- D.GVRP is enabled on this port

43. (Multiple Choice) Which of the following descriptions about access-link are correct? (Select 2 Answers)

- A.When access port receives a frame without 802.1Q tag header, the default PVID will be added to the frame.
- B.When access port receives a frame with VLAN ID in 802.1Q tag header different from the default PVID, VLAN ID in 802.1Q tag header is changed to the default PVID.
- C.When access port sends a frame, 802.1Q tag header is removed and standard Ethernet frame is sent.
- D.When access port sends a frame, 802.1Q tag header is kept and a tagged frame is sent

44. (Multiple Choice) Which of the following descriptions about trunk link are correct? (Select 3 Answers)

- A.When trunk port receives a frame without 802.1Q tag header, the default PVID will be added to the frame.
- B.When trunk port receives a frame with 802.1Q tag header, no changes is done on the frame.
- C.When trunk port sends a frame whose VLAN ID is not same as default PVID, the frame is sent directly.
- D.When trunk port sends a frame whose VLAN ID is same as the default PVID, no modification is done on the tag.

45. (Multiple Choice) To make sure all hosts belonging to the same VLAN can receive the broadcast packets sent to this VLAN, which of the following operations are needed on the switch? (Select 2 Answers)

- A.Send the packets out of all ports of the switch.
- B.Send the packets out of other ports that belong to the same VLAN.
- C.Send the packets to all trunk links that allow this VLAN to pass.
- D.Send the packets to all trunk links.

46. (Single Choice) When the value of the two-byte TPID field in an Ethernet frame header is 0x8100, it indicates that this frame carries an () tag.

- A.802.1P
- B.802.1Q
- C.802.1D
- D.802.1S

47. (Single Choice) All Ethernet frames in a switch flow in the form of ().

- A.BPDU
- B.PVID

C.Untagged frame

D.Tagged frame

48. (Single Choice) A switch is based on port-based VLAN IDs. When the switch receives untagged frames, the VLAN ID is determined by ().

A.BPDU

B.PVID

C.MAC mapping table

D.IP Address

GARP and GVRP

1. (Single Choice) A switch is configured with VLAN 3, VLAN 4 and VLAN 5. GVRP is not enabled for the trunk port. The trunk port then receives a frame with VLAN ID 6. This frame will be ().

A.Flooded to all VLANs

B.Flooded to VLAN 1 only

C.Flooded to all trunk ports

D.Discarded

2. (Single Choice) Which of the following protocols can dynamically register VLAN information?

A.GVRP

B.GMRP

C.VRRP

D.STP

3. (Single Choice) GVRP represents Generic VLAN registration protocol, it is an application of ().

A.GMRP

B.GMTP

C.IGMP

D.GARP

4. (Single Choice) GVRP is short for ?

A.GARP VLAN Registration Protocol

B.GARP VLAN Record Protocol

C.GARP VLAN Remark Protocol

D.GARP VLAN Rewrite Protocol

5. (Single Choice) A gvrp command is used to enable GVRP, and an undo gvrp command is used to disable GVRP. By default, GVRP is ().

A.in enable state

B.in disable state

C.subject to the last VLAN operation

D.in an arbitrary state

6. (Multiple Choice) Which of the following statements about the gvrp command are true?

A.Before port GVRP is enabled by running this command, global GVRP must be enabled.

B.If global GVRP is in disable state, this command can enable port GVRP.

C.If global GVRP is in disable state, port GVRP is also in disable state.

D.Enabling or disabling global GVRP is performed in the system view by running a gvrp command.

7. (Single Choice) GVRP protocol can operate at () port.

A.Trunk

B.Access

C.hybrid

D.Normal

8. (Single Choice) Which of the following descriptions about GARP is incorrect?

A.GARP provides a mechanism by which the members in a switched network can implement distribution, propagation and registration of certain information.

B.In GARP working mechanism, the attribute is spread to the whole network by the process "declaration-registration-declaration"

C.GARP is called generic attribute registration protocol

D.GARP has only one application: GVRP

VLAN Routing

1. (Single Choice) Direct interconnection of traffic with different VLANs is not allowed. Such traffic must be transmitted based on ().

A.Port isolation

B.MAC addresses

C.VLAN routing

D.VLAN switching

2. (Single Choice) On huawei router,Before you configure the IP address of an Ethernet sub-port, you need to configure ().

A.MAC address

B.VLAN encapsulation

C.Global GVRP

D.Port GVRP

3. (Multiple Choice) Which of the following methods can realize communication between VLANs at network layer?

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4. (Multiple Choice) Which of the following descriptions are correct about VLAN interface?

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Wireless LAN Overview

1. (Multiple Choice) Which of the following WLAN standards support operation in the 5GHz range? (Two Answers).

- A. 802.11a
- B. 802.11b
- C. 802.11g
- D. 802.11n

2. (Single Choice) which of the following standards provide a transmission rate of more than 1Gbps ?

- A. 802.11b
- B. 802.11g
- C. 802.11n
- C. 802.11ac