

Computer Network Services

Answers: 1B: 2A:3C:4B:5A:6A:7B:8D:9A:10C:11A:12A:13D:14B:15A:16C:17D:18D

1.What ENUM standard is used for?

- A. It is used to call a sip user from a telephone set connected to the public telephone number
- B. It is used to call a telephone in the public switched telephone network from a computer, using SIP
- C.It is used to transmit the voice streams of a sip calls
- D. It is used to implement e-presence in SIP

2. The so called access VPN (virtual private network) or virtual dial-up VPN are currently based on

- A. Dial up connections.
- B. Tunneling through IP networks
- C. An existing wiring infrastructure able to provide broadband access services
- D. New line protocols (data-link layer)

3. Why IPsec standard is used in some VPN (virtual private network) ?

- A. It is used only to verify the authentication credentials of remote users with a data exchange with an authentication server.
- B.It is only used to allow remote user to send username and password to access the VPN
- C.It is used to setup a secure tunnels between different sites of the same enterprise using a public network
- D. It is used to overcome problems connected with the use of private networks

4.-Why is it useful to use GRE encapsulation protocol as opposed to IP-in-IP

- A. Because it provides encryption mechanism
- B Because it is possible to encapsulate lower levels protocols (e.g. data link layers) in IP datagrams.
- C.Because the resulting packet is shorter.
- D.Because it is possible to authenticate the sender.

5. What is the distinctive feature of a VPN implementing a overlay model

- A. The network provider does not know that we are implementing a vpn
- B.The user devices at the edge of the vpn may ignore that we are using a VPN
- C. It is not possible to have a secure connection
- D. It cannot be implemented without the intervention network provider

6. What is the role of link local IPV6 address

- A. It can be used to enable the communication between hosts in the same subnetwork when other type of IPV6 addresses are not available

- B. It is used to physically connect 2 host over a local link
- C. It is the only address that can be used to communicate over a LAN
- D. It is the only address to communicate to routers

7. What is the feature of IPV6 address?

- A. They allow communication between host with IPV4 and IPV6 addresses without additional mechanism
- B. They keep the same flexible division between subnet and host fields.
- C. They rigidly organized in network, subnetwork and host fields.
- D. They include a unique broadcast address

8. Which mechanism is used to forward IPV6 packets over the LAN?

- A. A neighbor discovery mechanism is not used because there is an algorithm to map any possible address onto a MAC address.
- B. The neighbor discovery is not used for IPV6 multicast and broadcast packets because an algorithm exists to map those IPV6 address onto MAC address
- C. The neighbor discovery mechanism is used for all the possible types of IPV6 address.
- D. The neighbor discovery mechanism is not used for IPV6 multicast packets because an algorithm exist to map those IPV6 address onto MAC address

9. Which of the following mechanism apply to SIP?

- A. A voice gateway may be used to allow the communication between two IP phones connection to different physical networks
- B. It is necessary to update the access network to fiber connection
- C. Signaling protocols are used to setup a call and to negotiate its parameters
- D. It's necessary to provide each user with a computer for sip cells and is normal phone set for calls from/to public switched network

10. The importance of MPLS (multiprotocol label switchthing) today's networks derives from one of the following features.

- A. It is possible to transport efficiently IP packet over ATM networks
- B. It is possible to have a high speed connections between servers and their disk units
- C. It is possible to implement efficient and effective traffic engineering operations
- D. It is possible to implement devices that do not need complex configuration operation

11. Which of the following statement applies to sip protocol?

- A. It is based on a distributed architecture where each domain should have a server to manage the domestic users
- B. It is based on a centralized architecture with only one server to manage communications

C. It is based on a hierarchical organization where each level manages a particular area of the network

D. It is based on a peer-to-peer architecture to enable a dynamic behavior for the users

12. Why the combination of a token bucket (or a leaky bucket) and weighted fair queuing (WFQ) is used?

A. It is used to have a maximum guarantee transversal time for a single router

B. It is used to have a maximum guarantee transversal time for a NAT

C. It is used to have a maximum guarantee transversal time for a flow of packets

D. It is used to obtain a guarantee jitter for packets

13. Which of the following statements applies to SIP trapezoid?

A. It is mainly used to send SUBSCRIBE-NOTIFY (e-presence) messages

B. It is an obsolete mechanism of SIP, since mainly current SIP implementations use a more efficient mechanism

C. It is the standard mechanism to send REGISTER Messages

D. It is a standard mechanism to setup a call

14. What is the role of NAPR record in SIP?

A. They are used which servers are available in a domain with their relative priorities.

B. They are used which services are available in a domain with their relative priorities

C. They are used to verify the identity of the users during the registration phase.

D. They are used to possibly change the voice encoding when two UAs do not have the same codec.

15. What is the role of Session Description Protocol?

A. It is used to negotiate the parameters to setup a call

B. It is used to select the use of SIP or H.232 for the session being open

C. It is used to exchange authentication information at the beginning of a session

D. It is used to select if a record routing should be selected or not, for the current SIP session

16. Where queue scheduling policies are used?

A. In access routers to make sure that the traffic profile generated by a user is conforming with the agreed with the service provider.

B. In firewall, to delay packets entering the enterprise network from internet in order to prevent some kinds of attacks

C. In a router to decide the order of transmission of the packets waiting at each interface

D. In a router to schedule the list of the configuration commands issued by the user in order to minimize the impact on normal operations caused by the applications of configuration changes.

17. Where ATM networks are still used today?

- A. In some LANS
- B. In some connections between homes and the closest DSLAMs
- C. In private networks
- D. In some networks connecting DSLAMs with ISP networks (POP)

18. How Qos is managed in SIP?

- A. Is natively used managed by sip
- B the RTCP protocol is used to obtain QoS
- C Is is optional
- D Sip does not provide any mechanism for QS