

502046_Introduction to Computer Network_CLC

Bài thi tính điểm Quá trình 2

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* Indicates required question

Email *



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What is the primary function of the control plane in the network layer?



Determine route taken by packets from source to destination



Maintaining network security



Establishing connections



Forwarding data packets

[Clear selection](#)

What is the network address of IP address 10.1.43.61/29?



[10.1.43.53/29](#)



[10.1.43.54/29](#)



[10.1.43.55/29](#)



[10.1.43.56/29](#)

[Clear selection](#)



Which routing algorithm uses autonomous systems as the routing domain?

- ☐ OSPF
- ☐ EIGRP
- ☒ BGP
- ☐ RIP

Clear selection

Which type of HTTP connection closes after each request from the client?

- ☒ Non-Persistent Connections
- ☐ Persistent Connections
- ☐ Persistent Connections without Pipelining
- ☐ Persistent Connections with Pipelining

Clear selection

Which of the following is a benefit of using a link-state routing protocol over a distance vector routing protocol?

- ☐ Smaller routing tables
- ☐ Better scalability
- ☒ Faster convergence
- ☐ Lower memory usage

Clear selection



A network 180.80.0.0. /16 is sub-netted using VLSM, and the requirements are to create the following three subnets: Subnet-1 has 500 hosts; Subnet-2 is with 107 hosts; Subnet-3 has 30 hosts. Subnet-2 starting usable IP address is:

- ☐ 183.57.33.0
- ☒ 180.80.2.1
- ☐ 183.57.0.32
- ☐ 183.57.0.65

Clear selection

001 or 2000::/3 is used as:

- ☒ Globally routable address
- ☐ Unique local address
- ☐ Loopback address
- ☐ Unspecified address

Clear selection

What is the primary function of a router?

- ☐ To provide internet access to end-users
- ☒ To forward packets between networks
- ☐ To provide wireless connectivity to devices
- ☐ To filter network traffic

Clear selection



When a computer wants to broadcast a message to all other computers on the network, what is the destination MAC address?

- ☐ 11-11-11-11-11-11
- ☐ None of the above
- ☐ 00-00-00-00-00-00
- ☒ FF-FF-FF-FF-FF-FF

Clear selection

What is the Protocol Data Unit (PDU) in Network Layer?

- ☒ datagram (packet)
- ☐ frame
- ☐ bits
- ☐ segment

Clear selection

The shortest-correct representation of IPV6 – 2001:0db0:0000:1111:0000:0000:0000:0200 is:

- ☐ 2001:db0::1111::200
- ☐ 2001:db0::1111:0:0:0:200
- ☒ 2001:db0:0:1111::200
- ☐ 2001:db0:0:1111:0:0:0:200

Clear selection



A network 180.80.0.0. /16 is sub-netted using VLSM, and the requirements are to create the following three subnets: Subnet-1 has 500 hosts; Subnet-2 is with 107 hosts; Subnet-3 has 30 hosts. Subnet-3 last usable IP address is:

- ☐ 180.80.2.159
- ☒ 180.80.2.109
- ☐ 180.80.3.1
- ☐ 180.80.3.199

Clear selection

When client connects into a network for the first time and it wants to get IP address automatically using DHCP, last message it will receive from DHCP server (in case DHCP server successfully provides IP address) is:

- ☐ DHCP Request
- ☐ DHCP Offer
- ☒ DHCP ACK
- ☐ DHCP Discover

Clear selection

What is an example of a Top Level Domain (TLD) name?

- ☐ www
- ☐ [tdtu.vn](#)
- ☐ [www.hochiminh.com.vn](#)
- ☒ .vn

Clear selection



Formatting and compressing are used in the following layer:

- ☐ Network layer
- ☐ Transport layer
- ☐ Session layer
- ☒ Presentation layer

Clear selection

Divide 192.168.1.0/24 into 4 subnets. What is the network address of the third subnet?

- ☐ 192.168.1.192
- ☒ 192.168.1.128
- ☐ 192.168.1.64
- ☐ 192.168.1.224

Clear selection

Which of the following is a routing protocol that uses a link-state database to calculate the best path to a destination network?

- ☒ OSPF
- ☐ RIP
- ☐ EIGRP
- ☐ BGP

Clear selection



Which OSPF area type connects directly to the backbone area (Area 0)?

- ☐ Stub area
- ☒ Backbone area
- ☐ Transit area
- ☐ Totally stubby area

Clear selection

What is the purpose of the Address Resolution Protocol (ARP)?

- ☐ To resolve MAC addresses to IP addresses.
- ☐ To resolve domain names to IP addresses.
- ☐ To resolve IP addresses to domain names.
- ☒ To resolve IP addresses to MAC addresses.

Clear selection

Which of the following is an advantage of using a private IP address?

- ☐ It simplifies network configuration by eliminating the need for subnetting.
- ☐ It allows direct access to the internet.
- ☐ It provides a unique address for each device on the network.
- ☒ It increases network security by preventing outside access to the network.

Clear selection



Which of the following is a characteristic of a half-duplex transmission mode?

- ☐ It is more secure than full-duplex transmission.
- ☒ It allows data to be transmitted in only one direction at a time.
- ☐ It is faster than full-duplex transmission.
- ☐ It allows data to be transmitted in both directions simultaneously.

Clear selection

Which of the following is an example of a private IP address?

- ☐ 127.10.10.1
- ☐ 172.32.1.1
- ☐ 192.186.1.2
- ☒ 172.16.10.2

Clear selection

Which IP address can be assigned to an internet interface?

- ☐ 172.30.20.8
- ☐ 10.192.1.2
- ☒ 172.32.16.10
- ☐ 192.168.0.22

Clear selection



What is the MAXIMUM number of usable IP addresses of Network address 130.20.0.0/25?

- ☐ 64
- ☐ 254
- ☐ 128
- ☒ 126

Clear selection

If the MAC address is FC:99:47:75:CE:E0, What would the EUI-64 Interface ID be?

- ☐ fc:99:47:ff:fe:75:ce:e0
- ☒ fe:99:47:ff:fe:75:ce:e0
- ☐ fe:99:47:fe:ff:75:ce:e0
- ☐ 20:99:47:ff:fe:75:ce:e0

Clear selection

Which IP address is in the SAME Local Area Network (LAN) with IP address 192.168.1.125/26?

- ☐ [192.168.1.60/26](#)
- ☒ [192.168.1.70/26](#)
- ☐ [192.168.1.10/26](#)
- ☐ [192.168.1.129/26](#)

Clear selection



Which one is NOT a characteristic of the network layer?

- ☐ Connectionless
- ☐ Media independent
- ☒ Error checking
- ☐ Best effort

Clear selection

If a host has the address 172.16.45.14/30, what is the subnet that this host belongs to?

- ☐ [172.16.45.16/30](#)
- ☐ [172.16.45.20/30](#)
- ☐ [172.16.45.8/30](#)
- ☒ [172.16.45.12/30](#)

Clear selection

Which field in the TCP header is used to indicate the number of bytes of data that a sender can receive before sending an acknowledgment?

- ☐ Urgent pointer
- ☐ Window size
- ☒ Sequence number
- ☐ Acknowledgment number

Clear selection



A network 180.80.0.0. /16 is sub-netted using VLSM, and the requirements are to create the following three subnets: Subnet-1 has 500 hosts; Subnet-2 is with 107 hosts; Subnet-3 has 30 hosts. Subnet-1 subnet mask will be:

- ☐ 255.255.224.254
- ☐ 255.255.255.224
- ☐ 255.255.255.254
- ☒ 255.255.254.0

[Clear selection](#)

Which of the following is NOT a function of the transport layer?

- ☐ Congestion control
- ☐ Error detection
- ☐ Flow control
- ☒ Encryption

[Clear selection](#)

What is the purpose of NAT (Network Address Translation) in computer networking?

- ☐ To assign unique IP addresses to all devices on a network
- ☐ To provide wireless access to a wired network
- ☒ To map private addresses inside a local network to a public IP address before transferring the information onto the internet.
- ☐ To block unauthorized access to a network

[Clear selection](#)

What is the broadcast address for the subnet 192.168.1.32/27?

- ☐ 192.168.1.224
- ☒ 192.168.1.63
- ☐ 192.168.1.31
- ☐ 192.168.1.255

Clear selection

Ipv6 addressing scheme doesn't support:

- ☐ Multicast
- ☒ Broadcast
- ☐ Anycast
- ☐ Unicast

Clear selection

Which flag in the TCP header is used to indicate that the sender is resetting a connection?

- ☐ ACK
- ☒ RST
- ☐ SYN
- ☐ FIN

Clear selection

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