

Cs610p lab 1

1. Which of the following is a correct IP address?

172.16.1.0

172:16.1.0

172.16-1-0

172.16:1.0

2. an IPv4 address is expressed by four numbers separated by -----.

Dots

Commas

Colons

Underscores

2. Which of the following addresses is used to uniquely identify each device in a TCP/IP network?

IP

FTP

TCP

UDP

3. ----- is an address that uniquely identifies a physical adapter on a LAN.

Port

MAC

Logical

IP

4. ----- command is used to check the connectivity of device in a TCP/IP network.

Ipconfig

Getmac

IP

Ping

5. By default ping waits approximately ----- for each response to be returned before displaying the “Request Timed out” message

3seconds

6seconds

5 seconds

4 seconds

•

6. Which of the following commands is used to show the detailed IP configuration along with Mac Address?

GetIP/all

IP/all

Ipconfig/all

Ping/all

7. IPv4 uses----- binary bits to create a single unique address on the network.

32

34

43

45

8. MAC stand for -----

Media access control

9. MAC are also known as hardware addresses or -----

Physical addresses

10. MAC are uniquely identify an adapter on a -----.

LAN

11. Which of the following is correct syntax to traceroute command?

tracert www.mit.edu

12. Which of the following command is used to show the host name?

Ipconfig/all

13. -----command is used to check the connectivity of device in a TCP/IP network.

Ping

14. Ping command uses the ----- echo-request and echo-reply feature to test physical connectivity.

ICMP(internet control message protocol)

15. ----- address is reserved for loopback testing.

127.0.0.1

16. Which of the following addresses is used to uniquely identify each devices in a TCP/IP network?

IP

17. The IP address and the ----- should be in the same network or subnet.

Default gateway

18. The pinging vu website

Ping www.vu.edu.pk

19. If there will some Dropped or lost packets then a ping/trace route will usually show as -----.

Asterisks(*)

Cs610p lab 2

1. In packet tracer, if multiple instance of the same device are needed then press and hold the ---- button.

End

Home

Shift

Ctrl

2. To connect PC with HUB ----- cable is used.

Straight- through

3. In packet tracer different options like save, zoom and undo are available in --- bar.

Main toolbar

4. In packet tracer different options like select, delete and resize shape are available in ----- bar.

Common tools bar.

Cs610p lab 5

1. Which of the following device is used to interconnect two or more computer networks?

Amplifier

Repeater

NIC

Router

2. -----Device selects the shortest and best part for destination.

Router

Hub

NIC

Repeater

3. Router work at ----- layer.

Session

Application

Transport

Network

4. Repeater works at ----- layer.

Data link

Network

Physical

Application

5. -----Device provides interface between two networks that uses different protocol technologies.

Hub

Bridge

Gateway

Switch

6. ----- is an intelligent device that connects computers in our network.

Hub

Repeater

Amplifier

Router

7. A network switch works at the ----- layer of OSI model

Session

Data link

Application

Transport

8. Which of the following device can analyze incoming data packages?

Amplifier

Hub

Bridge

Repeater

9. After the following is a correct statement regarding the bridge?

A bridge and repeater are very much alike

A bridge and hub are very much alike

A bridge and switch are very much alike

A bridge and amplifier are very much alike

10. Which of the following device always sends data to all ports

instead of sending it to a specific port?

Hub

Switch

Router

bridge

1. Which of the following is a routed protocol?
RIP
FTP
POP
IP
2. In ----- routing there is no overhead on the router cpu.
- 3.

4. Cs610 p lab 9

1. MAC address is used in ----- of TCP/IP protocol suite.

Layer 2

2. ARP maintains a table with the combination at ----- and -----address.

IP, MAC

3. In ARP header, the size of sender MAC address field is -----.

6 bytes

4. ARP keeps track of ----- address which is associated with an IP address.

MAC

5. Suppose destination IP address is not local then the computer will need the MAC address of the -----.

default gateway

6. ARP reply is -----

Uni-cast

7. ARP stands for-----.

Address resolution protocol

8. When ARP does not know the MAC address of a local system then it sends a -----
----- message containing the IP address.

Broadcast

9. In ARP header, the size of sender IP address field is-----.

4 bytes

10. Which of the following command is used to see the help feature of ARP?

Arp -?

11. Which of the following field specify that ARP message is requested or response?

OpCode:

12. IP address is used in ----- of TCP/IP Protocol suite.

Layer 3

13. Which of the following command is used to view the ARP table in the Windows operating system?

Arp -a

14. In ARP table, the address type can be -----.

Both Static and dynamic

15. ARP is used for resolving -----.

IP address to MAC address

16. The default gateway is the ----- that is used to provide connectivity with other networks.

Router interface

17. Arp request is always -----

unicast

Lab 10

1. First octet of class C lies between-----.

192-223

2. First octet of class A lies between-----.

1 -126

3. Which of the following is not a valid class of IP address?

Class G

4. Class D address starts with ----- bits.

1110

5. The address 172.16.0.1 lies in -----class.

Class B

6. Which of the following is the correct size of Network bits in IP address of class A?

8

7. Class C address starts with ----- bits.

110

8. Which of the following is a valid distribution for class C IP address?

Network, network, network, host

9. First octet of class B lies between-----.

128-191

10. Which of the following is the correct size of Network bits in IP address of class B?

16

11. Which of the following is the correct size of Network bits in IP address of class c?

24

12. Which of the following class of IP address is reserved for multicasting?

Class D

13. Which of the following is a valid distribution for class A IP address?

Network, host, host, host

14. Which of the following is the correct size of Host bits in IP address of Class C?

8

15. The address 192.168.1.0 lies in -----class.

Class C

16. Class A address starts with ----- bits.

0

17. The address 130.2.1.0 lies in -----class.

Class B

18. The address 14.20.1.0 lies in -----class.

Class A

19. Which of the following is incorrect distribution range with respect to given class of IP address?

Class C 192 to 220

20. Which of the following is a valid distribution for class B IP address?

Network, network, host, host

21. Which of the following is the correct size of Host bits in IP address of Class A?

24

22. Class B address starts with ----- bits.

10

LAB 11

1. Which of the following IP address class has the largest number of subnets?

Class A

2. An IP address can be broken into-----.

Network and host

3. The default subnet mask for class A is -----.

255.0.0.0

4. The default subnet mask for class B is -----.

255.255.0.0

5. Which of the following is correct formula to find total number of hosts per subnet in class C

$2^8 - 2$

5. If IP address is written like 154.71.150.42/21 then it is called.

slash notation* or **Classless Inter-Domain Routing (CIDR) notation*

6. Which of the following is a correct class A IP address?

11.0.0.0

7. Which of the following is a correct class A IP address?

172.31.2.1

8. when the host bits are requested by a set of all zeros. It depicts-----address.

Broad cast

8. Which of the following is correct range for class C private IP addresses?

192.168.0.0-192.168.255.255

9. Which of the following is correct range for class A private IP addresses?

10.0.0.0-10.255.255.255

9. Which of the following is correct range for class B private IP addresses?

172.16.0.0- 172.31.255.255

10. Which of the following is correct formula to find total number of hosts per subnet in class A?

$2^{24} - 2$

10. Which of the following is correct formula to find total number of hosts per subnet in class

B?

$2^{16} - 2$

11. To obtain the network ID we perform Boolean -----function between subnet mask and

the IP address.

AND

12. Which of the following is a correct class C IP address?

192.168.100.20

13. The default subnet mask for class C is -----.

255.255.255.0

14. Which of the following notation is used to specify the IP address without subnet mask?

SLASH

14. Which of the following is not a correct IP address?

150.255.255.254

LAB 12

1. In class C IP address, if we borrow 2 bits from host portion then-----subnets and -----

hosts per subnet will be created.

4 and 62

2. In class B IP address, if we have subnet mask 255.255.248.0 then slash/CIDR notation will be -----.

/21

3. In class B IP address, if we borrow 7 bits from host portion then-----hosts per subnet will be created.

128

4. In class C IP address, if we borrow 6 bits from the host portion for subnetting then custom subnet mask will be-----.

255.255.255.248

5. In class B IP address, if we borrow 5 bits from host portion then----- hosts per subnet will be created.

2046

5. In class C IP address, if we borrow 4 bits from the host portion for subnetting then custom subnet mask will be-----.

255.255.255.240

6. In class C IP address, if we borrow 1 bits from the host portion then ----- subnets and ---
-----hosts per subnet will be created.

8190

7. In class B IP address, if we have subnet mask 255.255.255.224 then slash/CIDR notation will be-----.

/27

8. In class C IP address, if we borrow 2 bits from the host portion for subnetting then custom subnet mask will be -----.

255.255.255.240

9.

Lab 13

1. Which of the following is correct subnet mask for the network address 172.29.0.0 to get 7 subnets?

255.255.254.0

2. which of the following is a correct subnet mask for class B corresponding to the CIDR prefix /22?

255.255.252.0

3. -----is correct number of subnets in the CIDR notation 172.22.0.0/20.

4. which of the following is correct subnet mask for the network address 172.29.0.0 to get 600 subnets?

5. ----- is correct number of subnets in the CIDR notation 172.28.0.0/24.

256

6. -----is correct number of subnets in the CIR notation 200.2.12./26.

- 7.----- is correct number of subnets in the CIDR notation 172.20.0.0/23

8. -----is correct number of subnets in the CIR notation 172.12.0.0/22.

9. which of the following is a correct subnet mask for class B corresponding to the CIDR prefix/21?

255.255.248.0

10. which of the following is the correct subnet mask for the network address 172.29.0.0 to get 80 subnets?

11. ----- is correct number of subnets in the CIDR notation 172.20.0.0/23

16

32

128

64

11. Which of the following is correct subnet mask for the network address 172.290.0 to get 350 subnets?

Lab 15

1. Which of the following is correct about DHCP server?

- a. Provide storage for email
- b. Translate IPv4 addresses to MAC addresses
- c. Provide an IP configuration to hosts
- d. Translate URLs to IP addresses

Cs610p lab 14

1. IPv6 address can also use ----- format.

Double colon

2. Which of the following field is available in IPv4 header?

Option

3. There are ---- number of address in IPv4

2³²

4. Which of the following is correct regarding IPv4?

4.3 billion hosts

5. which of the following version of IP will be exhausted in near future?

IPv4

6. Ipv4 is ---- byte address.

4

7. ----- is used to encrypt IPv4 traffic.

IPsec

8. -----technique is used to increase the number IPv4 address.

NAT (Network address translation)

9. The size of IPv6 address ----- bits

128

10. ----- bits address is used to Uniquely identify devices on internet.

32

11. IPv6 has ----- types of address notation.

3

12. Which of the following version of IP WILL BE EXHAUSTED in near future?

IPv4

13. Which of the following IP version is not enough for growing number of users?

IPv4

14.

Cs610p lab 15

1. Which of the following is correct about DHCP server?

Provide storage for email

Translate IPv4 address to MAC address

Provide an IP configuration to hosts

2. DHCP stands for ----.

Dynamic host configuration protocol

3. In packet tracer, ----- tab is used to assign IP address to the server.

Config

4. Web browser is available under ---- tab in packet tracer.

Desktop

5. In packet tracer, which of the following is not a correct address to assign as start IP address range on DHCP server?

10.5.6.2

6. DHCP provides ----- to the client.

IP address

6. In DHCP server configuration using packet tracer, we need to assign -----.

MAC address

7. ----- is the correct way to access “try.html” web page located on web server having IP address 192.168.5.2.

Try.html

8. HTTP stand for -----.

Hypertext transfer protocol

9. In packet tracer, which of the following service need to set ON for web server configuration?

HTTP

10. In packet tracer, which of the following tab is used to make the DHCP services available on a server?

Desktop

11. Which of the following is used to configure IP information dynamically?

DHCP

- 12.