



## Computer Networks (CS610)

Ethernet uses a ----- bit static addressing scheme in which each device is assigned a unique address by the manufacturer.

Ethernet uses a \_\_\_\_\_ static addressing scheme in which each device is assigned a unique address by the manufacturer.

- 64
- **48**
- 32
- 8

The ----- bit preamble in the Ethernet frame format that precedes the frame contains alternating 1s and 0s that allow the receiver's hardware to synchronize with the incoming signal.

- **64**
- 32
- 16
- 8

The third field of the header consists of ----- bit Ethernet frame type.

- 48
- 32
- **16**
- 8

An interface for twisted pair Ethernet must have a \_\_\_\_\_ connector, and must generate signals according to the \_\_\_\_\_ specification.

- BNC- t base 10
- **RJ 45- t base 10**
- BNC-t base 5
- RJ 45-t base 2

A bridge uses the \_\_\_\_\_ to determine which computers connect to which segment, and uses the \_\_\_\_\_ to determine whether to forward a copy of frame.

- **Source , destination**
- Source , source
- Destination, source
- None from above

Formally named \_\_\_\_\_ informally known as the thick wire Ethernet or Thick net.

- 10 Base 2
- 10 Base 5
- **10 Base T**
- None of the given

Formally named ----- informally known as thin wire Ethernet or thin net.

- **10 Base 2**
- 10 Base 5
- 10 Base T
- None of the given

Formally named \_\_\_\_\_ informally known as the twisted pair Ethernet or TP Ethernet.

- 10 Base 2
- 10 Base 5
- **10 Base T**
- None of the given

Most NICs contain \_\_\_\_\_ circuitry that allows the NIC to operate independent of the CPU.

- **DMA(Direct Memory Access)**
- Multiplexer
- Transceiver
- None of the given

A system with redundant bridges might have a problem with \_\_\_\_\_ in the system.

- **Loop**
- Filters
- Spamming
- All above

A Bridge can \_\_\_\_\_

- Filter a frame
- Forward a frame
- Extend a LAN
- **Do all the above**

\_\_\_\_\_ has a jitter zero

None of the given

### **Virtual Private Network**

Isochronous Network

Asynchronous Network

Unlike Frame Relay and ATM, SMDS (Switched multi-megabit Data service) offers \_\_\_\_\_ .

Connectionless service paradigm

### **Connection oriented service paradigm**

Both Connectionless and Connection-oriented service paradigm

None of the given

ATM assigns each VC a \_\_\_\_\_ identifier that is divided two parts to produce a hierarchy.

- 21-bit
- 22-bit
- 23-bit
- **24-bit**

Most WAN systems include a mechanism that can be used to eliminate the common case of duplication routing is called\_\_\_\_\_

- Hierarchal address
- **Default route**
- Shortest path
- None of the given

The next hop to which a packet is sent depends only on

- **Packet's destination**
- Packet's original source
- Path the packet has taken
- Non of the given

When an application----- data, it makes a copy of the data available to all other computers on the network?

- **Broadcasting**
- Multicasting
- Unicasting
- None of the given

A ----- provide a mechanism that a customer can use to set a physical address.

- **Static addressing scheme**
- Configurable addressing scheme
- Dynamic addressing scheme
- None of the given

\_\_\_\_\_ sense a signal on one cable and then transmits an amplified copy on the other cable.

- **Repeater**
- Bridge
- Hub
- None of the given

The maximum size of an Ethernet segment is\_\_\_\_\_

- 250 meters
- **500 meters**
- 700 meters
- None of the given

FDDI can transmits data at a rate of -----

- **100 million bits per second**
- 100 million bits per second
- 100 million bits per second
- None of the given

Computers attached to an ether use ----- in which a computer waits for the ether to be idle before transmitting a frame.

- **CSMA/CD**
- CSMA/CA
- TOKEN PASSING
- None of the given

----- have advantages arisen from the size and ease of computation.

- **CRC**
- Parity
- Checksums
- None of given

The term ----- is used to denote the definition of a packet used with a specific type of network.

- Packet
- **Frame**
- Data
- None of the given

----- has no way to determine the cause of the problem.

- **Ping**
- Trace route
- ICMP
- Non of the given

In -----, network occupies the smaller area like a room a floor or a building

- **LAN**
- WAN
- MAN
- None of the given

In -----, network occupies larger areas like cities & countries.

- LAN
- **WAN**
- MAN
- None of the given

No error detection scheme is perfect because transmission errors can affect the additional information as well as the data.

- **False**
- True

A typical port on an ATM switch operates at \_\_\_\_\_ or higher.

- OC-2 speed (155Mbps)
- OC-3 speed (100Mbps)
- **OC-3 speed (155Mbps)**
- OC-3 speed (155Gbps)

The product of delay and throughput measures the \_\_\_\_\_ of data that can be present on the network.

- Area
- **Volume**
- Length
- None of the given

\_\_\_\_\_ is used for compressed audio and video where the data rate depends on the level of compression that can be achieved.

- Constant Bit Rate (CBR) service
- **Variable Bit Rate (VBR) service**
- Available Bit Rate (ABR) service
- None of the given

Which of the following is a connecting device?

- Bridge
- Repeater
- Hub
- **All the given**

A bridge function in the \_\_\_\_\_ layers(s).

- Physical (MAC)
- **Data link**
- Network
- Physical (MAC) and Data link

A Bridge forwards or filters a frame by comparing the information in its address table to the frame's \_\_\_\_\_

- Layer 2 source address
- Source node's physical address
- **Layer 2 destination address**
- Layer 3 destination address

IEEE LLC/SNAP header is -----, which is used to specify the type of data.

- **8 octets**
- 8 bytes
- 8 bits
- None of the given

An -----method, the network hardware designers specify how type information is included in the frame and the value used to identify various frame types.

- **Explicit frame type**
- Ideal frame type
- Implicit frame type
- None of the given

Local Talk is a LAN technology that employs -----

- Star topology
- **Bus topology**
- Ring topology
- None of the given

The Fast Ethernet hardware operates at a rate of -----

- 10 Mbps
- **100 Mbps**
- 1000 Mbps
- None of the given

----- scheme, which is designed to help detect transmissions errors, send one extra bit of information with each character

- **Parity**
- Checksums
- CRC
- None of the given

Computer networks are often called ----- because they use packet technology.

- Ethernet
- Switch networks

- **Packet networks**

- None of the given ← NS

----- Program sends a message to a remote computer and reports whether the computer responds.

- **Ping**

- Traceroute
- ICMP
- Non of the given

In Point-to-Point topology there are two topologies.

- Tree and Ring
- Star and Ring
- **Star and Tree**
- None of the given

A network uses a -----arranges for computers to be connected in a closed loop.

- Star Topology
- **Ring Topology**
- Bus Topology
- None of the given

An interface for thin Ethernet must have an \_\_\_\_\_ connector, and must generate signals according to the \_\_\_\_\_ specification.

- RJ-45, 10 Base T
- RJ-45, 10 Base 5
- BNC, 10 Base 2
- **BNC, 10 Base T**

Final Starts Here

\_\_\_\_\_ of TCP/IP layering model, corresponds to basic network hardware.

- **Physical Layer**
- Network Interface Layer
- Internet Layer
- Transport Layer

\_\_\_\_\_ protocols of TCP/IP layering model specify how to ensure reliable transfer.

- Physical Layer
- Network Interface Layer
- Internet Layer
- **Transport Layer**

\_\_\_\_\_ is called an end-to-end protocol because it provide a connection directly from an application on one computer to an application on a remote computer.

- IP
- **UDP**
- TCP
- None of the given

\_\_\_\_\_ uses distance vector approach to define routing

- BGP

- OSPF
- **RIP**
- None of the given

\_\_\_\_\_ is ideal in a situation where the group is small and all members are attached to contiguous Local Area Networks.

- **Flood-and -Prune**
- Configuration-and -Tunneling
- Core-Based Discovery
- None of the given

Router that decrements TTL to \_\_\_ sends ICMP time exceeded message, with router's address as source address

- 3
- 2
- 1
- **0**

Protocol addresses are abstractions provided by \_\_\_\_\_.

- hardware
- **software**
- operating system
- internet

Although message exchange can be used to bind addresses, sending a request for each binding is hopelessly inefficient.

- **True**
- False

ARP is almost always used to bind a \_\_\_-bit IP address to a \_\_\_-bit Ethernet address.

- **32, 48**
- 24, 32
- 32, 64
- 32, 128

In the 1970s large organizations began to acquire multiple networks. Each network in the organization formed island. Employees needed to choose a computer appropriate for each task. So they needed multiple screens, keyboards and computers.

- False
- **True**

In which method of Address Resolution Protocol the protocol address is determined by hardware address? Were "T" stands for Table lookup, "C" for Closed-form Computation and "D" for Data Exchange?

- T
- D
- **C**
- T, C

Which method of Address Resolution Protocol is useful with any hardware?

Were "T" stands for Table lookup, "C" for Closed-form Computation and "D" for Data Exchange?

- **T**

- C
- D
- C, D

In which method of Address Resolution Protocol the implementation is more difficult?

Were "T" stands for Table lookup, "C" for Closed-form Computation and "D" for Data Exchange?

- T, C
- T
- C
- **D**

Which method of Address Resolution Protocol resolution with minimum delay?

Were "T" stands for Table lookup, "C" for Closed-form Computation and "D" for Data Exchange?

- T, D
- c
- T
- **T, C**

The general form of an IP datagram is with a header followed by data. The header contains information that controls where and how the datagram is to be sent.

- **True**
- False

To save traffic, an EGP does not summarize routing information from the autonomous system before passing it to another autonomous system.

- **True**
- False

----- was especially concerned about the lack of high powered computers.

- IEEE
- APRA
- EIA
- **None**

Missing eot indicates sending computer crashed in frame format.

- **True**
- False

The -----term refers to the general concept of a small block of data.

- **Packets**
- Data
- Fram
- None of given

CRC can detect more errors than a simple shecksum.

- **True**
- False

The network that uses a -----, usually consist of a single long cable to which computer attach.

- Star topology
- **Bus topology**



- Ring topology
- None of the given

LAN that use ATM technology have a -----

- Star topology
- Bus topology
- **Ring topology**
- None of the given

A bridge uses ----- to determine which computer is connected to which segment, and uses the ----- to determine whether to forward a copy of frame.

- **Source address, destination address.**
- Destination address, destination address.
- Destination address, source address.
- source address, source address.

----- has a jitter zero

- **Virtual Private Network**
- Isochronous Network
- Asynchronous Network
- None of the given

The network with Throughput T and Delay D has a total ----- bits in transit at a time.

- $D + T$
- $D - T$
- **$D \times T$**
- $D / T$

One repeater -----, two repeaters ----- the maximum cable length limitation.

- **Double, triple**
- Double, 4 time
- half, triple
- Double, half

End-to-end delivery service is connection oriented.

- **True**
- False

A single networking technology is best for all needs.

- True
- **False**

Twice NAT allows a site to run servers.

- **True**
- False

\_\_\_\_\_ device is used for multicasting.

- **Hub**
- Switch
- Router
- none of the given

\_\_\_\_\_ does not depend on any particular unicast routing protocol.

- PIM-DM
- **PIM-SM**
- PIM-AM
- none of the given

A routing table contains\_\_\_\_\_

- The destination network ID
- The hop count to reach the network
- **The router ID of the next hop**
- All of the given

\_\_\_\_\_ can be used to propagate information about remote networks.

- **Dynamic routing**
- Static routing
- Address resolution
- None of the given

\_\_\_\_\_ protocol is designed to use within an organization.

- OSPF
- MEOSPF
- **MOSPF**
- none of the given

NAPT stands for \_\_\_\_\_

- Network Address and Protocol Translation
- **Network Address and Port Translation**
- Network Address and Packet Translation
- None of the given

In dynamic routing, the routing table is initialized when system boots.

- **True**
- False

OSPF includes \_\_\_\_\_ address mask with each address.

- 30Bit
- **32Bit**
- 34Bit
- none of the given

Twice NAT fails if an application uses the IP addresses instead of Domain Name.

- **True**
- False

\_\_\_\_\_ uses window mechanism to control the flow of data.

- IP
- UDP
- **TCP**
- none of the given

TCP uses \_\_\_\_\_ mechanism to control the flow of data.

- door
- **window**
- acknowledgment

- retransmission

IGPs stand for \_\_\_\_\_

- Internal Gateway Protocols
- **Interior Gateway Protocols**
- Intermediate Gateway Protocols
- None of the given

\_\_\_\_\_ protocol uses distance vector algorithm.

- IGP
- BGP
- **RIP**
- none of the given

\_\_\_\_\_ measures **distance in network hops**, where each network between the source and destination counts as single hop.

- BGP
- OSPF
- **RIP**
- Non of these

Network Address Translation (NAT) requires device to perform packet translation.

- **True**
- False

We use the term \_\_\_\_\_ to **refer to a measure of the path** that routing software use when choosing a route.

- routing path
- **routing metric**
- routing
- switching

Which of the following is a correct representation of the IPv6?

- **105.220.136.100.255.255.255.255.0.0.18.128.140.10.255.255**
- 105.220.136.100.255.255.255.256.0.0.18.128.140.10.255.255
- 105.220.136.100.255.255.255.255.0.0.18.128.140.10.255.255.256
- 105.220.136.100.255.255.255.255.0.0.18.128.140.10.255

Part of the 3-way handshake used to create a connection, requires each end to generate a random \_\_\_\_\_ sequence number.

- **32 bit**
- 16 bit
- 8 bit
- 64 bit

Reconstruction of original datagram is called reassembly.

- **True**
- False

Reliability is the responsibility of the \_\_\_\_\_ layer.

- **Transport**
- Network
- Physical

- Internet

\_\_\_\_\_ is ideal in a situation where the group is small and all members are attached to contiguous Local Area Networks.

- **Flood-and -Prune**
- Configuration-and -Tunneling
- Core-Based Discovery
- None of the given

In Direct point to point communication adding the Nth computer requires----- new connections.

- None of the given
- $N^2$
- $N-1$
- **$(N^2 - N)/2$**

The number of connections needed for N computer in direct point to point communication is equal to:

- **$(N^2 - N)/2$**
- $N(N-1)$
- $N^2$
- None of the given

Hardware that calculates a CRC uses two simple components.

- AND unit and XOR unit
- **Shift register and XOR unit**
- Shift register and AND unit
- None of the given

The Gigabit Ethernet hardware operates at a rate of -----

- 10 Mbps
- 100 Mbps
- **1000 Mbps**
- None of the given

\_\_\_\_\_ computes shortest paths in a graph by using weights on edges as a measure of distance.

- Greedy algorithm
- Distance vector algorithm
- **Dijkstra's algorithm**
- Non of the given

Basic LAN technologies such as Ethernet, Token Ring, and FDDI use a \_\_\_\_\_.

- **Connectionless service paradigm**
- Connection-oriented service paradigm
- Both Connectionless and Connection-oriented service paradigm
- None of the given

An Internet Address (IP address) is a unique \_\_\_\_\_ binary number assigned to a host and used for all communication with host

- 48-bit
- **32-bit**
- 24-bit
- None of the given

The address \_\_\_\_\_ identifies the physical network to which the computer is attached, while the \_\_\_\_\_ identifies an individual computer on that network.

- **prefix , suffix**
- suffix , prefix
- suffix , suffix
- None of the given

\_\_\_\_\_ places the boundary between the first and second octets

- **Class A**
- Class B
- Class C
- Class D

\_\_\_\_\_ places the boundary between the second and third octets.

- Class A
- **Class B**
- Class C
- Class D

\_\_\_\_\_ places the boundary between the third and fourth octets.

- Class A
- Class B
- **Class C**
- Class D

\_\_\_\_\_ field of **header indicates whether a datagram** is a fragment or a complete datagram.

- **FLAGS**
- FLAGMENT OFFSET
- IDENTIFICATION
- None of the given

\_\_\_\_\_ provides connectionless service.

- TCP
- **UDP**
- IP
- None of the given

UDP and TCP are both\_\_\_\_\_ layer protocols

- Physical
- Data link
- Network
- **Transport**

\_\_\_\_\_ identifies which **application program on receiving computer** should receive the data

Logical address

- Source port
- Source port
- **Destination Port**
- None of the given

\_\_\_\_\_ **identifies the application program** that sent the data.

- Destination Port
- **Source port**
- Logical address

- None of the given

The **Border Gateway Protocol (BGP)** uses \_\_\_\_\_ for all communication

- UDP
- **TCP**
- Both UDP and TCP
- None of the given

Which of the following protocols allows the sender and receiver to enforce policies.

- RIP
- OSPF
- **BGP**
- RIP and OSPF

ICMP message transport is acted upon by getting ICMP encrypted in IP.

- **True**
- False

These packets serve same purpose on \_\_\_\_\_ as frames on \_\_\_\_\_

- Intranet, LAN
- Internet, WAN
- Intranet, WAN
- **Internet, LAN**

Address mask defines how many bits of address are in suffix?

- True
- **False**

A computer attached to a given network can only communicate with other computers attached to the same network. Is this a problem with multiple networks?

- **True**
- False

The term self-identifying is used for Classful IP addresses because the class of the address can be computed from the address\_\_\_\_\_.

- **itself**
- prefix
- suffix
- mask

Find the class of the address:

11110011 10011011 11111011 00001111

- A
- C
- **E**
- B

Find the class of the address.

10100111 11011011 10001011 01101111

- A
- **B**

- E
- C

On of the design goals for unicast route propagation is \_\_\_\_\_.

- consistency
- inconsistency
- **stability**
- dynamic addressing

Propagation multicast routing information differs dramatically from unicast route propagation?

- **True**
- False

The IP multicast abstraction allows an application running on an arbitrary computer to leave a multicast group at any time. While \_\_\_\_\_ application on a computer remain a member of a group.

- one or more
- only one
- no ←
- many

In IPv6 the type of address used for collection of computers with same prefix. Are known as\_\_\_\_\_.

- Anycast
- Unicast
- Multicast
- **Non of the given → Cluster**

Special types of addresses in IPv6 used for multiple destinations; possibly not at same site. Are known as\_\_\_\_\_.

- Unicast
- Anycast
- **Multicast**
- Non of the given

UDP offers application programs a Message-Oriented Interface, applications can depend on protocol to preserve data boundaries.

- **True**
- False

The time for acknowledgement to arrival of packet depends on.

- **Distance to destination and Current traffic conditions**
- Current traffic conditions
- Distance to destination
- non of these

Cost, effort, risks, and resources are the factors included in-----

- **Estimation**
- Testing
- Development
- Maintenance

#### **Quiz 12 07 2010**

There are \_\_\_\_\_ possibilities to detect the destination using Trace-route

- 1
- 2
- 3
- None of the given

\_\_\_\_\_ is used for single destination computer.

- Multicast
- Broadcast
- **unicast**
- none of the given

Although the ARP message format is sufficiently general to allow arbitrary protocol and hardware addresses. ARP is almost always used to bind a 32-bit IP address to a \_\_\_\_\_ Ethernet address.

- 16-bit
- **48-bit**
- 64-bit
- 128-bit

Which is not the type of error messages defined by ICMP.

- Source quench
- Time exceeded
- Destination unreachable
- **none of the given**

End to End delivery Service of IP datagram is \_\_\_\_\_

- Connection oriented
- **Connectionless**
- both a and b
- none of the given

\_\_\_\_\_ is a type of address used for collection of computers with same prefix.

- **Cluster**
- unicast
- Multicast
- none of the given

IPv6 \_\_\_\_\_ is responsible for fragmentation. Routers simply drop datagram's larger than network

- Destination
- Intermediate routers
- **Source**
- Medium

\_\_\_\_\_ Source is responsible for fragmentation.

- IPV4
- **IPV6**

\_\_\_\_\_ message is sent in response to incoming datagrams with problems.

- TCP/IP
- IGMP
- **ICMP**
- none of the given

\_\_\_\_\_ field is used to identify a specific path through the network



- FLOW LABEL
- TRAFFIC CLASS
- **Both a and b**
- none of the given

Connectionless service, Message-Oriented protocol, best-effort delivery service, arbitrary interaction & operating system independent are the characteristics of \_\_\_\_\_

- TCP
- **UDP**
- IP
- None of the given

The process of using a routing table to select a next hop for a given datagram is called \_\_\_\_\_.

- Encapsulation
- Reassembling
- **Routing or forwarding**
- None of the given

A multicast routing scheme in which the protocol software builds a delivery tree from a central point is called \_\_\_\_\_

- Distance Vector Multicast Routing Protocol (DVMRP)
- **Core Based Tree (CBT)**
- Protocol Independent Multicast\_Sparse Mode (PIM-SM)
- Protocol Independent Multicast\_Dense Mode (PIM-DM)

Whenever it handles a packet, IP software needs to separate the destination address into a \_\_\_\_\_ and \_\_\_\_\_.

- postfix, Infix
- non of these
- Infix, prefix
- **prefix, suffix**

Connection-oriented service, Point-to-point, Complete reliability, Full-duplex communication, Stream interface, Reliable connection startup and Graceful connection shutdown are the services provided by \_\_\_\_\_

- None of the given
- **TCP**
- UDP
- IP

\_\_\_\_\_ Protocol provides error reporting mechanism.

- IGMP
- SNMP
- **ICMP**
- none of the given

\_\_\_\_\_ encapsulates IP datagram as data area in hardware frame.

- **Network Interface Layer**
- Datalink Layer
- Network Layer
- None of the given

TTL stands for \_\_\_\_\_

- Time to Learn
- Time to Leave
- **Time to Live**
- none of the given

\_\_\_\_\_ layer Provides reliable delivery of datagram.

- Network
- **Transport**
- Datalink
- none of the given

Which protocol is used to test different tools.

- **ICMP**
- IGMP
- TCP/IP
- none of the given

Routers use \_\_\_\_\_ to forward datagrams along prearranged path.

- Traffic class
- **Flow label**
- Destination address
- none of the given

NEXT HEADER field in the base header defines type of header it appears at the end of fixed-size base header.

- **TRUE**
- FALSE

Every hardware technology specification includes the definition of the maximum size of the frame data area, which is called the \_\_\_\_\_ Transmission Unit.

- Least
- **Maximum**
- Fragment
- Frame

Postfix defines how much of address used to identify network.

- TRUE
- **FALSE → Prefix**

\_\_\_\_\_ contains all information needed to deliver datagram to the destination.

- **Header**

The Source can configure outgoing datagram's to avoid \_\_\_\_\_

- Segmentation
- Defragmentation
- **Fragmentation**
- None of the given

The Current version of IP-Version 4 is \_\_\_\_\_ old

- 18 years
- **20 years**

- 22 years
- none of given

The Header format of IPv6 is entirely different.

- **TRUE**
- FALSE

\_\_\_\_\_ shows senders preference for low latency, high Reliability.

- TYPE
- **SERVICE TYPE**
- SERVICE PRIORITY
- None of the given

The Network Layer Protocol ICMP stands for \_\_\_\_\_

- Instant Control Message Protocol
- **Internet Control Message Protocol**
- Initial Control Message Protocol
- None of the given

IPv6 address consists of \_\_\_\_\_

- 32 Bits
- 64 Bits
- **128 Bits**
- none of the given

\_\_\_\_\_ is a technique used to Limit datagram size to small MTU of any network

- Segmentation
- **Fragmentation**
- Encapsulation
- none of the given

ICMP message transport is acted upon by getting ICMP \_\_\_\_\_ in IP.

- De-encapsulated
- **Encapsulated**
- Segmented
- none of the given

IETF stands for \_\_\_\_\_

- **Internet Engineering Task Force**
- Internal Efficient Task Force
- Internet Engineering Technical Force
- none of the given

Which of the following protocols provide the routing information at the autonomous system level?

- BGP
- **OSPF**
- RIP
- OSPF and RIP

A one-to-many communication between a source and a specific group of hosts is classified as a \_\_\_\_\_ communication.

- Unicast
- **Multicast**

- Broadcast
- Unicast & Multicast

\_\_\_\_\_ includes a 32-bits address mask with each address, which allows the address to be classful, classless, or subnetted.

- RIP
- **OSPF**
- BGP
- None of the given

In TCP when a computer sends a segment, the \_\_\_\_\_ and \_\_\_\_\_ fields refer to incoming data.

- **ACKNOWLEDGE NUMBER, WINDOW**
- SEQUENCE NUMBER, WINDOW
- ACKNOWLEDGE NUMBER, SEQUENCE NUMBER
- None of the given

\_\_\_\_\_ is used to attach two autonomous systems.

- BGP
- IGP
- **EGP**
- none of the given

Routing inserts or changes values in \_\_\_\_\_

- MAC address
- **routing table**
- both (a) and (b)
- None of the given

NAT software does not allow a PC to connect with the Internet and act as a NAT device at the same time.

- True
- **False**

Each autonomous system used to communicate among autonomous systems by chooses an IGP.

- **True**
- False

Interior Gateway Protocols (IGPs) and Exterior Gateway Protocols (EGPs) two broad classes of Internet Routing Protocol.

- **True**
- False

The computer uses \_\_\_\_\_ to inform Local router about the last application when it leaves.

- ICMP
- **IGMP**
- SNMP
- None of the given

IPv6 address with \_\_\_\_\_ leading zeros is interpreted to hold an IPV4 address.

- **96**
- 100
- 120
- none of the given

For \_\_\_\_\_, information about forwarding is stored in a routing table, which is initialized at system initialization and must be updated as network topology changes.

- **Efficiency**
- Security
- Accuracy
- Anomalies

Class A mask is 255.0.0.0 which is used for \_\_\_\_\_

- Unicasting
- Multicasting
- **Subnetting**
- All of the given

When one computer sends an ARP message to another the message travels inside the hardware frame. Technically, placing a message inside a frame for transport is not called encapsulation.

- True
- **False**

Which one of these is not a main feature of connectionless service:

- It includes extension of LAN abstraction.
- It has universal addressing and the data is delivered in packets frames), each with a header.
- It combines collection of physical networks into a single virtual network.
- **It has universal addressing and the data is delivered in packets frames), without a header.**

Which one is NOT the function of ping program

- Traceability
- **Reach ability**
- Both a and b
- None of the given

A datagram cannot be larger than \_\_\_\_\_ of a network over which it is sent.

- **MTU**
- Size
- IP header
- None of the given

MTU Stands for \_\_\_\_\_

- Minimum transmission unit
- **Maximum transmission unit**
- Multicast transmission unit
- None of the given

Fragmentation when using ICMP for path MTU should be avoided.

- **True**
- False

HEADER LEN field gives size of extension header.

- False
- **True**

The process of learning the path MTU is known as path MTU discovery.

- **True**

- False

\_\_\_\_\_ is less complex and easy to understand.

- TCP
- **UDP**
- IP
- None of the given

IPv6 128 bits address includes network prefix and \_\_\_\_\_

- **Host suffix**
- Host prefix
- source Prefix
- None of the given

The Universal Datagram is not an end-to-end protocol.

- True
- **False**

The routers within an autonomous system use a \_\_\_\_\_ to exchange routing information.

### Interior Gateway protocols(IGPs)

In IP routing, forwarding refers to \_\_\_\_\_ transfer.

### datagram

The Border Gateway Protocol (BGP) uses \_\_\_\_\_ for all communication

### TCP

In TCP when a computer sends a segment, the \_\_\_\_\_ and \_\_\_\_\_ fields refer to incoming data.

Routing refers to the \_\_\_\_\_ of routing information.

propagation

NAT device stores state information in translation table.

True

\_\_\_\_\_ identifies the application program that sent the data.

None

OSPF stands for \_\_\_\_\_

Open Shortest Path First Protocol

A one-to-many communication between a source and a specific group of hosts is classified as a \_\_\_\_\_ communication

multicast

\_\_\_\_\_ is used to attach two autonomous systems.

none of the given

Routing inserts or changes values in \_\_\_\_\_

routing table

The computer uses \_\_\_\_\_ to inform Local router about the last application when it leaves.

### **IGMP**

Interior Gateway Protocols (IGPs) and Exterior Gateway Protocols (EGPs) two broad classes of Internet Routing Protocol

**True**

Quiz Start Time: 09:22 PM    Time Left    84

sec(s)

Question # 1 of 10 ( Start time: 09:22:58 PM )    Total Marks: 1

Class A mask is 255.0.0.0 which is used for \_\_\_\_\_

Select correct option:

Unicasting

Multicasting

Subnetting

All of the given

Quiz Start Time: 09:22 PM    Time Left    83  
sec(s)

Question # 1 of 10 ( Start time: 04:33:55 PM )

\_\_\_\_\_ encapsulates IP datagram as data area in hardware frame.

Select correct option:

Network Interface Layer



Datalink Layer

Network Layer

None of the given

CS610-Computer network

Question # 2 of 10 ( Start time: 04:35:26 PM ) Total Marks: 1

\_\_\_\_\_ field is used to identify a specific path through the network

Select correct option:

FLOW LABEL

TRAFFIC CLASS

Both a and b

none of the given

Question # 3 of 10 ( Start time: 04:36:51 PM ) Total Marks: 1

IPV6 address with \_\_\_\_\_ leading zeros is interpreted to hold an IPV4 address.

Select correct option:

96

100

120

none of the given

Question # 4 of 10 ( Start time: 04:38:19 PM ) Total Marks: 1

Although the ARP message format is sufficiently general to allow arbitrary protocol and hardware addresses. ARP is almost always used to bind a 32-bit IP address to a \_\_\_\_\_ Ethernet address.

Answer

(48bit)

Select correct option:

Question # 5 of 10 ( Start time: 04:39:45 PM ) Total Marks: 1

For \_\_\_\_\_, information about forwarding is stored in a routing table, which is initialized at system initialization and must be updated as network topology changes.

Select correct option:

Efficiency

Security

Accuracy

Anomalies

Question # 6 of 10 ( Start time: 04:41:15 PM ) Total Marks: 1

\_\_\_\_\_ is a technique used to Limit datagram size to small MTU of any network

Select correct option:

Segmentation

Fragmentation

Encapsulation

none of the given

Question # 7 of 10 ( Start time: 04:42:37 PM ) Total Marks: 1

Class A mask is 255.0.0.0 which is used for \_\_\_\_\_

Select correct option:

Unicasting

Multicasting

Subnetting

All of the given

Question # 8 of 10 ( Start time: 04:44:08 PM ) Total Marks: 1

When one computer sends an ARP message to another the message travels inside the hardware frame. Technically, placing a message inside a frame for transport is not called encapsulation.

Select correct option:

True

False

Question # 9 of 10 ( Start time: 04:45:12 PM ) Total Marks: 1

Which one of these is not a main feature of connectionless service:

Select correct option:

It includes extension of LAN abstraction.

It has universal addressing and the data is delivered in packets frames), each with a header.

It combines collection of physical networks into a single virtual network.

It has universal addressing and the data is delivered in packets frames), without a header.

Question # 10 of 10 ( Start time: 04:46:42 PM ) Total Marks: 1

Which protocol is used to test different tools.

Select correct option:

ICMP

IGMP

TCP/IP

none of the given

Question # 1 of 10 ( Start time: 04:49:54 PM ) Total Marks: 1

\_\_\_\_\_ message is sent in response to incoming datagrams with problems.

Select correct option:

TCP/IP

IGMP

ICMP

none of the given

Question # 2 of 10 ( Start time: 04:50:45 PM ) Total Marks: 1

Which one is NOT the function of ping program

Select correct option:

Traceability

Reach ability

Both a and b

None of the given

Question # 3 of 10 ( Start time: 04:52:14 PM ) Total Marks: 1

IPV6 address with \_\_\_\_\_ leading zeros is interpreted to hold an IPV4 address.

Select correct option:

96

100

120

none of the given

Question # 4 of 10 ( Start time: 04:52:32 PM ) Total Marks: 1

A datagram cannot be larger than \_\_\_\_\_ of a network over which it is sent.

Select correct option:

MTU

Size

IP header

None of the given

Question # 5 of 10 ( Start time: 04:52:55 PM ) Total Marks: 1

The Source can configure outgoing datagram's to avoid \_\_\_\_\_

Select correct option:

Segmentation

Defragmentation

Fragmentation



None of the given

Question # 6 of 10 ( Start time: 04:54:24 PM ) Total Marks: 1

Which one of these is not a main feature of connectionless service:

Select correct option:

It includes extension of LAN abstraction.

It has universal addressing and the data is delivered in packets frames), each with a header.

It combines collection of physical networks into a single virtual network.

It has universal addressing and the data is delivered in packets frames), without a header.

Question # 7 of 10 ( Start time: 04:55:27 PM ) Total Marks: 1

Every hardware technology specification includes the definition of the maximum size of the frame data area, which is called the \_\_\_\_\_ Transmission Unit.

Select correct option:

Least

Maximum

Fragment

Frame

Question # 8 of 10 ( Start time: 04:56:40 PM ) Total Marks: 1

\_\_\_\_\_ Protocol provides error reporting mechanism.

Select correct option:

IGMP

SNMP

ICMP

none of the given

Question # 9 of 10 ( Start time: 04:57:51 PM ) Total Marks: 1

\_\_\_\_\_ Source is responsible for fragmentation.

Select correct option:

IPV4

IPV6

Question # 10 of 10 ( Start time: 04:58:56 PM ) Total Marks: 1

MTU Stands for \_\_\_\_\_

Select correct option:

Minimum transmission unit

Maximum transmission unit

Multicast transmission unit

None of the given

Question # 1 of 10 ( Start time: 10:18:08 PM ) Total Marks: 1

Every hardware technology specification includes the definition of the maximum size of the frame data area, which is called the \_\_\_\_\_ Transmission Unit.

Select correct option:

Least

Maximum

Fragment

Frame

Question # 2 of 10 ( Start time: 10:19:35 PM ) Total Marks: 1

IPV6 address with \_\_\_\_\_ leading zeros is interpreted to hold an IPV4 address.

Select correct option:

96

100

120

none of the given

Question # 3 of 10 ( Start time: 10:20:11 PM ) Total Marks: 1

\_\_\_\_\_ is a type of address used for collection of computers with same prefix.

Select correct option:

Cluster

unicast

Multicast

none of the given

Question # 4 of 10 ( Start time: 10:21:24 PM ) Total Marks: 1

\_\_\_\_\_ field is used to identify a specific path through the network

Select correct option:

FLOW LABEL

TRAFFIC CLASS

Both a and b

none of the given

Question # 5 of 10 ( Start time: 10:22:16 PM ) Total Marks: 1

\_\_\_\_\_ message is sent in response to incoming datagrams with problems.

Select correct option:

TCP/IP

IGMP

ICMP

none of the given

Question # 6 of 10 ( Start time: 10:22:56 PM ) Total Marks: 1

\_\_\_ Protocol provides error reporting mechanism.

Select correct option:

IGMP

SNMP

ICMP

none of the given

Question # 7 of 10 ( Start time: 10:23:53 PM ) Total Marks: 1

One of the parameters, which motivated IP for change is address space. The \_\_\_\_\_ address space allows for over a million networks. But most networks are class C and too small for many organizations.

Select correct option:

32-bit

128-bit

16-bit

64-bit

Question # 8 of 10 ( Start time: 10:24:41 PM ) Total Marks: 1

ICMP message transport is acted upon by getting ICMP \_\_\_\_\_ in IP.

Select correct option:

De-encapsulated

Encapsulated

Segmented

none of the given

Question # 9 of 10 ( Start time: 10:26:04 PM ) Total Marks: 1

Class A mask is 255.0.0.0 which is used for \_\_\_\_\_

Select correct option:

Unicasting

Multicasting

Subnetting

All of the given

Question # 10 of 10 ( Start time: 10:26:34 PM ) Total Marks: 1

Due to revolutionalization of IP-V6 the speed has increased from \_\_\_\_\_

Select correct option:

56kbps to 512kbps

512kbps to 1gbps

56kbps to 1gbps

none of the given

Question # 1 of 10 ( Start time: 10:29:35 PM ) Total Marks: 1

Which protocol is used to test different tools.

Select correct option:

ICMP

IGMP

TCP/IP

none of the given

Question # 2 of 10 ( Start time: 10:30:29 PM ) Total Marks: 1

Routers use \_\_\_\_\_ to forward datagrams along prearranged path.

Select correct option:

Traffic class

Flow label

Destination address

none of the given

Question # 3 of 10 ( Start time: 10:31:40 PM ) Total Marks: 1

\_\_\_\_\_ Source is responsible for fragmentation.

Select correct option:

IPV4

IPV6

Question # 4 of 10 ( Start time: 10:32:19 PM ) Total Marks: 1

Class A mask is 255.0.0.0 which is used for \_\_\_\_\_

Select correct option:

Unicasting

Multicasting

Subnetting



All of the given

Question # 5 of 10 ( Start time: 10:32:54 PM ) Total Marks: 1

For \_\_\_\_\_, information about forwarding is stored in a routing table, which is initialized at system initialization and must be updated as network topology changes.

Select correct option:

Efficiency

Security

Accuracy

Anomalies

Question # 6 of 10 ( Start time: 10:33:31 PM ) Total Marks: 1

Header contains all information needed to deliver datagram to the destination computer. But which one of the following is not included:

Select correct option:

Destination address

Source address

Rectifier

Other delivery information

Question # 7 of 10 ( Start time: 10:34:16 PM ) Total Marks: 1

ICMP message transport is acted upon by getting ICMP \_\_\_\_\_ in IP.

Select correct option:

De-encapsulated

Encapsulated

Segmented

none of the given

Question # 8 of 10 ( Start time: 10:35:11 PM ) Total Marks: 1

End to End delivery Service of IP datagram is \_\_\_\_\_

Select correct option:

Connection oriented

Connectionless

both a and b

none of the given

Question # 9 of 10 ( Start time: 10:36:10 PM ) Total Marks: 1

One of the parameters, which motivated IP for change is address space. The \_\_\_\_\_ address space allows for over a million networks. But most networks are class C and too small for many organizations.

Select correct option:

32-bit

128-bit

16-bit

64-bit


Question # 10 of 10 ( Start time: 10:37:07 PM ) Total Marks: 1

Address mask defines how many bits of address are in prefix.

Select correct option:

True

False

Time Left 84  
sec(s) 

Quiz Start Time: 09:22 PM

Question # 1 of 10 ( Start time: 09:22:58 PM )

Total Marks: 1


Class A mask is 255.0.0.0 which is used for \_\_\_\_\_

 Select correct option:

- ☐ Unicasting
- ☐ Multicasting
- ☒ Subnetting
- ☐ All of the given



Click here to Save Answer & Move to Next Question

Time Left 83  
sec(s) 

Quiz Start Time: 09:22 PM

Question # 2 of 10 ( Start time: 09:23:54 PM )

Total Marks: 1

IPV6 address with \_\_\_\_\_ leading zeros is interpreted to hold an IPV4 address.


 Select correct option:


☐ 96

☐ 100

☐ 120

☐ none of the given

 [Click here to Save Answer & Move to Next Question](#)


Time Left 39  
sec(s) 

Quiz Start Time: 09:22 PM

Question # 3 of 10 ( Start time: 09:24:23 PM )

Total Marks: 1

ICMP message transport is acted upon by getting ICMP \_\_\_\_\_ in IP.

 Select correct option:

☐ De-encapsulated


☒ Encapsulated

☐ Segmented

☐ none of the given



Click here to Save Answer & Move to Next Question

Time Left <sup>6</sup>  
sec(s) 

Quiz Start Time: 09:22 PM

Question # 5 of 10 ( Start time: 09:27:02 PM )

Total Marks: 1

Routers use \_\_\_\_\_ to forward datagrams along prearranged path.

 Select correct option:

☐ Traffic class


☐ Flow label

☒ Destination address “doubt”

☐ none of the given



Click here to Save Answer & Move to Next Question

Time Left 81  
sec(s) 

Quiz Start Time: 09:22 PM

Question # 6 of 10 ( Start time: 09:28:29 PM )

Total Marks: 1


MTU Stands for \_\_\_\_\_

 Select correct option:

- ☐ Minimum transmission unit
- ☒ **Maximun transmission unit**
- ☐ Multicast transmission unit
- ☐ None of the given



Click here to Save Answer & Move to Next Question

Time Left 62  
sec(s) 

Quiz Start Time: 09:22 PM

Question # 7 of 10 ( Start time: 09:28:57 PM )

Total Marks: 1


Preliminary version of IP was called \_\_\_\_\_.

▶ Select correct option:

- ☐ IP - New Generation (IPng)
- ☒ IP - Next Generation (IPng)
- ☐ IP - Net Generation (IPng)
- ☐ None of the given



Click here to Save Answer & Move to Next Question

Time Left **49**  
sec(s) 

Quiz Start Time: 09:22 PM

Question # 8 of 10 ( Start time: 09:29:50 PM )

Total Marks: 1

\_\_\_\_\_ contains all information needed to deliver datagram to the destination.


▶ Select correct option:

- ☒ Header
- ☐ Data Area
- ☐ Identifier

☐ none of the given



Click here to Save Answer & Move to Next Question

Time Left **39**  
sec(s) 

Quiz Start Time: 09:22 PM

Question # 9 of 10 ( Start time: 09:31:17 PM )

Total Marks: 1

\_\_\_\_\_field tells the receiver how to order fragments within a given datagram.

 Select correct option:

☐ FLAGS


☐ FLAGMENT OFFSET

☒ IDENTIFICATION “not confirm”

☐ None of the given



Click here to Save Answer & Move to Next Question

Time Left **19**  
sec(s) 



Quiz Start Time: 09:22 PM

Question # 10 of 10 ( Start time: 09:32:47 PM )

Total Marks: 1

Every hardware technology specification includes the definition of the maximum size of the frame data area, which is called the \_\_\_\_\_ Transmission Unit.

 Select correct option:

- ☐ Least
- ☒ **Maximum**
- ☐ Fragment
- ☐ Frame



Click here to Save Answer & Move to Next Question

Question # 2 of 10 ( Start time: 09:23:54 PM )

Total Marks: 1

IPV6 address with \_\_\_\_\_ leading zeros is interpreted to hold an IPV4 address.

Select correct option:

100

120

none of the given

Quiz Start Time: 09:22 PM    Time Left    39

sec(s)

Question # 3 of 10 ( Start time: 09:24:23 PM )    Total Marks: 1

ICMP message transport is acted upon by getting ICMP \_\_\_\_\_ in IP.

Select correct option:

De-encapsulated

Encapsulated

Segmented

none of the given

Quiz Start Time: 09:22 PM    Time Left    6

sec(s)

Question # 5 of 10 ( Start time: 09:27:02 PM )    Total Marks: 1

Routers use \_\_\_\_\_ to forward datagrams along prearranged path.

Select correct option:

Traffic class

Flow label

Destination address “doubt”

none of the given

Quiz Start Time: 09:22 PM    Time Left    81

sec(s)

Question # 6 of 10 ( Start time: 09:28:29 PM )    Total Marks: 1

MTU Stands for \_\_\_\_\_

Select correct option:

Minimum transmission unit

Maximum transmission unit

Multicast transmission unit

None of the given

Quiz Start Time: 09:22 PM    Time Left    62

sec(s)

Question # 7 of 10 ( Start time: 09:28:57 PM )    Total Marks: 1

Preliminary version of IP was called \_\_\_\_\_.

Select correct option:

IP - New Generation (IPng)

IP - Next Generation (IPng)

IP - Net Generation (IPng)

None of the given

Quiz Start Time: 09:22 PM    Time Left    49

sec(s)

Question # 8 of 10 ( Start time: 09:29:50 PM )    Total Marks: 1

\_\_\_\_\_ contains all information needed to deliver datagram to the destination.

Select correct option:

Header

Data Area

Identifier

none of the given

Quiz Start Time: 09:22 PM    Time Left    39

sec(s)

Question # 9 of 10 ( Start time: 09:31:17 PM )      Total Marks: 1

\_\_\_\_\_field tells the receiver how to order fragments within a given datagram.

Select correct option:

FLAGS

FLAGMENT OFFSET

IDENTIFICATION “not confirm”

None of the given

Quiz Start Time: 09:22 PM    Time Left      19

sec(s)



Question # 10 of 10 ( Start time: 09:32:47 PM )      Total Marks: 1

Every hardware technology specification includes the definition of the maximum size of the frame data area, which is called the \_\_\_\_\_ Transmission Unit.

Select correct option:

Least

Maximum

Fragment

Frame

MC080408134 : Muhammad Aamir Ayyub



Quiz Start Time: 07:18 PM

Question # 1 of 10 ( Start time: 07:18:50 PM )

Total Marks: 1

\_\_\_\_\_ protocol uses distance vector algorithm.



Select correct option:

- ☐ IGP
- ☐ BGP
- ☐ RIP
- ☐ none of the given



MC080408134 : Muhammad Aamir Ayyub



Quiz Start Time: 07:18 PM

Question # 2 of 10 ( Start time: 07:20:03 PM )

Total Marks: 1

NAT stands for \_\_\_\_\_

 Select correct option:

- ☐ Network Address Translation

☐ Network Address Transmission

☐ Network Address Test

☐ None of the given



MC080408134 : Muhammad Aamir Ayyub



Quiz Start Time: 07:18 PM

Question # 3 of 10 ( Start time: 07:21:02 PM )

Total Marks: 1

TCP achieves \_\_\_\_\_ by retransmission.

Select correct option:

☐ Efficiency

☐ Accuracy

☐ Reliability

☐ none of the given

MC080408134 : Muhammad Aamir Ayyub



Quiz Start Time: 07:18 PM

Question # 4 of 10 ( Start time: 07:22:11 PM )

Total Marks: 1

Network Address and Port Translation (NAPT) is by far the most popular form of \_\_\_\_\_

 Select correct option:

MC080408134 : Muhammad Aamir Ayyub



Quiz Start Time: 07:18 PM

Question # 4 of 10 ( Start time: 07:22:11 PM )

Total Marks: 1

Network Address and Port Translation (NAPT) is by far the most popular form of \_\_\_\_\_

 Select correct option:

- ☐ Network Address Transmission
- ☐ Network Address Translation
- ☐ Network Address Transformation

☐ None of the given



MC080408134 : Muhammad Aamir Ayyub



Quiz Start Time: 07:18 PM

Question # 5 of 10 ( Start time: 07:23:37 PM )

Total Marks: 1

Twice NAT is another variant of NAT. it is used with site that runs server. In this process NAT box is connected to Domain Name.

Select correct option:

☐ False

☐ True

MC080408134 : Muhammad Aamir Ayyub



Quiz Start Time: 07:18 PM

Question # 6 of 10 ( Start time: 07:24:56 PM )

Total Marks: 1

TCP provides \_\_\_\_\_ communication.

 Select correct option:

- ☐ Half-duplex
- ☐ Full-duplex
- ☐ Both (a) and (b)
- ☐ None of the given

MC080408134 : Muhammad Aamir Ayyub



Quiz Start Time: 07:18 PM

Question # 7 of 10 ( Start time: 07:26:03 PM )

Total Marks: 1

Routing refers to the \_\_\_\_\_ of routing information.

 Select correct option:

- ☐ transmission
- ☐ propagation

☐ communication

☐ None of the given

MC080408134 : Muhammad Aamir Ayyub

Time Left	44 sec(s)	
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Quiz Start Time: 07:18 PM

Question # 8 of 10 ( Start time: 07:26:50 PM )

Total Marks: 1

All routers within a group exchange routing information.

 Select correct option:

☐ True

☐ False

MC080408134 : Muhammad Aamir Ayyub

Time Left	14 sec(s)	
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Quiz Start Time: 07:18 PM

Question # 9 of 10 ( **Start time: 07:27:50 PM** )

**Total Marks: 1**

A standard protocol exists that allows a host to inform a nearby router whenever the host needs to join or leave a particular multicast group is known as \_\_\_\_\_.

 **Select correct option:**

☐ IGMP

☐ OSPF

☐ BGP

☐ None of the given

**MC080408134 : Muhammad Aamir Ayyub**

Time Left	54 sec(s)	
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Quiz Start Time: 07:18 PM

Question # 10 of 10 ( **Start time: 07:29:16 PM** )

**Total Marks: 1**

Interior Gateway Protocols (IGPs) and Exterior Gateway Protocols (EGPs) two broad classes of Internet Routing Protocol.



 Select correct option:

True

False

TTL stands for \_\_\_\_\_

Select correct option:

Time to Learn

Time to Leave

Time to Live

none of the given

-----

H.LEN shows the header length in units of \_\_\_\_ Bits

Select correct option:

34

32

30

None of the given

-----

There are \_\_\_\_\_ possibilities to detect the destination using Trace-route

Select correct option:

1

2

3

None of the given

-----

\_\_\_\_\_ Source is responsible for fragmentation.

Select correct option:

IPV4

IPV6

-----

\_\_\_\_\_ encapsulates IP datagram as data area in hardware frame.

Select correct option:

Network Interface Layer

Datalink Layer

Network Layer

None of the given

-----

IPV6 address consists of \_\_\_\_\_

Select correct option:

32 Bits

64 Bits

128 Bits

none of the given

-----

\_\_\_\_\_ shows senders preference for low latency, high Reliability.

Select correct option:

TYPE

SERVICE TYPE

SERVICE PRIORITY

None of the given

-----  
Class A mask is 255.0.0.0 which is used for \_\_\_\_\_

Select correct option:

- Unicasting
  - Multicasting
  - Subnetting
  - All of the given
- 

\_\_\_\_\_ Protocol provides error reporting mechanism.

Select correct option:

- IGMP
  - SNMP
  - ICMP
  - none of the given
- 

ICMP message transport is acted upon by getting ICMP \_\_\_\_\_ in IP.

Select correct option:

- De-encapsulated
  - Encapsulated
  - Segmented
  - none of the given
- 

Question # 5 of 10 ( Start time: 06:19:01 PM ) Total Marks: 1

Which protocol is used to test different tools.

Select correct option:

ICMP  
IGMP  
TCP/IP  
none of the given

-----

When one computer sends an ARP message to another the message travels inside the hardware frame. Technically, placing a message inside a frame for transport is not called encapsulation.

Select correct option:

True  
False

-----

Question # 7 of 10 ( Start time: 06:20:16 PM ) Total Marks: 1

Preliminary version of IP was called \_\_\_\_\_.

Select correct option:

IP - New Generation (IPng)  
IP - Next Generation (IPng)  
IP - Net Generation (IPng)  
None of the given

-----

Question # 8 of 10 ( Start time: 06:21:46 PM ) Total Marks: 1

Header contains all information needed to deliver datagram to the destination computer. But which one of the following is not included:

Select correct option:

Destination address  
Source address  
Rectifier  
Other delivery information

-----

Question # 9 of 10 ( Start time: 06:23:13 PM ) Total Marks: 1

\_\_\_\_\_ Source is responsible for fragmentation.

Select correct option:

IPV4  
IPV6

-----

Question # 10 of 10 ( Start time: 06:23:29 PM ) Total Marks: 1

\_\_\_\_\_ layer Provides reliable delivery of datagram.

Select correct option:

Network  
Transport  
Datalink  
none of the given

-----

Question # 3 of 10 ( Start time: 06:28:42 PM ) Total Marks: 1

Which one of these is not a main feature of connectionless service:

Select correct option:

It includes extension of LAN abstraction.  
It has universal addressing and the data is delivered in packets frames), each with a header.  
It combines collection of physical networks into a single virtual network.

It has universal addressing and the data is delivered in packets frames), without a header.

-----

Question # 7 of 10 ( Start time: 06:30:56 PM ) Total Marks: 1

The process of learning the path MTU is known as path MTU discovery.

Select correct option:

True

False

-----

Question # 8 of 10 ( Start time: 06:31:37 PM ) Total Marks: 1

IPv6 \_\_\_\_\_ is responsible for fragmentation. Routers simply drop datagram's larger than network

Select correct option:

Destination

Intermediate routers

Source

Medium

-----

Question # 9 of 10 ( Start time: 06:32:19 PM ) Total Marks: 1

IP datagram can contains \_\_\_\_\_ octets.

Select correct option:

0-65,535

1-65,535

1-65,536

none of the given

-----

Question # 10 of 10 ( Start time: 06:33:26 PM ) Total Marks: 1

\_\_\_\_\_ shows senders preference for low latency, high Reliability.

Select correct option:

TYPE

SERVICE TYPE

SERVICE PRIORITY

None of the given

-----

IPV6 addresses are \_\_\_\_\_ bits.

Select correct option:

32

64

128

256

-----

The Source can configure outgoing datagram's to avoid \_\_\_\_\_

Select correct option:

Segmentation

Defragmentation

Fragmentation

None of the given

-----

\_\_\_\_\_ field of header indicates whether a datagram is a fragment or a complete datagram.  
Select correct option:

FLAGS

FLAGMENT OFFSET

IDENTIFICATION

None of the given

Quiz Start Time: 09:22 PM Time Left 84  
sec(s)

Question # 1 of 10 ( Start time: 09:22:58 PM ) Total Marks: 1  
Class A mask is 255.0.0.0 which is used for \_\_\_\_\_  
Select correct option:



Unicasting

Multicasting

Subnetting

All of the given

Quiz Start Time: 09:22 PM Time Left 83  
sec(s)

Question # 2 of 10 ( Start time: 09:23:54 PM ) Total Marks: 1  
IPV6 address with \_\_\_\_\_ leading zeros is interpreted to hold an IPV4 address.  
Select correct option:

96

100

120

none of the given

Quiz Start Time: 09:22 PM Time Left 39  
sec(s)

Question # 3 of 10 ( Start time: 09:24:23 PM ) Total Marks: 1

ICMP message transport is acted upon by getting ICMP \_\_\_\_\_ in IP.

Select correct option:

De-encapsulated

Encapsulated

Segmented

none of the given

Quiz Start Time: 09:22 PM Time Left 6  
sec(s)

Question # 5 of 10 ( Start time: 09:27:02 PM ) Total Marks: 1

Routers use \_\_\_\_\_ to forward datagrams along prearranged path.

Select correct option:

Traffic class

Flow label

Destination address "doubt"

none of the given

Quiz Start Time: 09:22 PM Time Left 81  
sec(s)

Question # 6 of 10 ( Start time: 09:28:29 PM ) Total Marks: 1  
MTU Stands for \_\_\_\_\_  
Select correct option:

- Mininum transmission unit
- Maximun transmission unit
- Multicast transmission unit
- None of the given

Quiz Start Time: 09:22 PM Time Left 62  
sec(s)

Question # 7 of 10 ( Start time: 09:28:57 PM ) Total Marks: 1  
Preliminary version of IP was called \_\_\_\_\_.  
Select correct option:

- IP - New Generation (IPng)
- IP - Next Generation (IPng)
- IP - Net Generation (IPng)

None of the given

Quiz Start Time: 09:22 PM Time Left 49  
sec(s)

Question # 8 of 10 ( Start time: 09:29:50 PM ) Total Marks: 1  
\_\_\_\_\_ contains all information needed to deliver datagram to the destination.  
Select correct option:

Header

Data Area

Identifier

none of the given

Quiz Start Time: 09:22 PM Time Left 39  
sec(s)

Question # 9 of 10 ( Start time: 09:31:17 PM ) Total Marks: 1  
\_\_\_\_\_ field tells the receiver how to order fragments within a given datagram.  
Select correct option:

FLAGS

FLAGMENT OFFSET

IDENTIFICATION “not confirm”

None of the given

Quiz Start Time: 09:22 PM Time Left 19  
sec(s)

Question # 10 of 10 ( Start time: 09:32:47 PM ) Total Marks: 1

Every hardware technology specification includes the definition of the maximum size of the frame data area, which is called the \_\_\_\_\_ Transmission Unit.

Select correct option:

Least

Maximum

Fragment

Frame

Question # 1 of 10 ( Start time: 04:33:55 PM )

\_\_\_\_\_ encapsulates IP datagram as data area in hardware frame.

Select correct option:

Network Interface Layer

Datalink Layer

Network Layer

None of the given

CS610-Computer network

Question # 2 of 10 ( Start time: 04:35:26 PM ) Total Marks: 1

\_\_\_\_\_ field is used to identify a specific path through the network

Select correct option:

FLOW LABEL

TRAFFIC CLASS

Both a and b

none of the given

Question # 3 of 10 ( Start time: 04:36:51 PM ) Total Marks: 1

IPV6 address with \_\_\_\_\_ leading zeros is interpreted to hold an IPV4 address.

Select correct option:

96

100

120

none of the given

Question # 4 of 10 ( Start time: 04:38:19 PM ) Total Marks: 1

Although the ARP message format is sufficiently general to allow arbitrary protocol and hardware addresses. ARP is almost always used to bind a 32-bit IP address to a \_\_\_\_ Ethernet address.

Answer

(48bit)

Select correct option:

Question # 5 of 10 ( Start time: 04:39:45 PM ) Total Marks: 1

For \_\_\_\_\_, information about forwarding is stored in a routing table, which is initialized at system initialization and must be updated as network topology changes.

Select correct option:

Efficiency

Security

Accuracy



Anomalies

Question # 6 of 10 ( Start time: 04:41:15 PM ) Total Marks: 1

\_\_\_\_\_ is a technique used to Limit datagram size to small MTU of any network

Select correct option:

Segmentation

Fragmentation

Encapsulation

none of the given

Question # 7 of 10 ( Start time: 04:42:37 PM ) Total Marks: 1

Class A mask is 255.0.0.0 which is used for \_\_\_\_\_

Select correct option:

Unicasting

Multicasting

Subnetting

All of the given

Question # 8 of 10 ( Start time: 04:44:08 PM ) Total Marks: 1

When one computer sends an ARP message to another the message travels inside the hardware frame. Technically, placing a message inside a frame for transport is not called encapsulation.

Select correct option:

True

False

Question # 9 of 10 ( Start time: 04:45:12 PM ) Total Marks: 1

Which one of these is not a main feature of connectionless service:

Select correct option:

It includes extension of LAN abstraction.

It has universal addressing and the data is delivered in packets frames), each with a header.

It combines collection of physical networks into a single virtual network.

It has universal addressing and the data is delivered in packets frames), without a header.

Question # 10 of 10 ( Start time: 04:46:42 PM ) Total Marks: 1

Which protocol is used to test different tools.

Select correct option:

ICMP

IGMP

TCP/IP

none of the given

Question # 1 of 10 ( Start time: 04:49:54 PM ) Total Marks: 1

\_\_\_\_\_ message is sent in response to incoming datagrams with problems.

Select correct option:

TCP/IP

IGMP

ICMP

none of the given

Question # 2 of 10 ( Start time: 04:50:45 PM ) Total Marks: 1

Which one is NOT the function of ping program

Select correct option:

Traceability

Reach ability

Both a and b

None of the given

Question # 3 of 10 ( Start time: 04:52:14 PM ) Total Marks: 1

IPV6 address with \_\_\_\_\_ leading zeros is interpreted to hold an IPV4 address.

Select correct option:

96

100

120

none of the given

Question # 4 of 10 ( Start time: 04:52:32 PM ) Total Marks: 1

A datagram cannot be larger than \_\_\_\_\_ of a network over which it is sent.

Select correct option:

MTU

Size

IP header

None of the given

Question # 5 of 10 ( Start time: 04:52:55 PM ) Total Marks: 1

The Source can configure outgoing datagram's to avoid \_\_\_\_\_

Select correct option:

Segmentation

Defragmentation

Fragmentation

None of the given

Question # 6 of 10 ( Start time: 04:54:24 PM ) Total Marks: 1

Which one of these is not a main feature of connectionless service:

Select correct option:

It includes extension of LAN abstraction.

It has universal addressing and the data is delivered in packets frames), each with a header.

It combines collection of physical networks into a single virtual network.

It has universal addressing and the data is delivered in packets frames), without a header.

Question # 7 of 10 ( Start time: 04:55:27 PM ) Total Marks: 1

Every hardware technology specification includes the definition of the maximum size of the frame data area, which is called the \_\_\_\_\_ Transmission Unit.

Select correct option:

Least

Maximum

Fragment

Frame

Question # 8 of 10 ( Start time: 04:56:40 PM ) Total Marks: 1

\_\_\_\_\_ Protocol provides error reporting mechanism.

Select correct option:

IGMP



SNMP

ICMP

none of the given

Question # 9 of 10 ( Start time: 04:57:51 PM ) Total Marks: 1

\_\_\_\_\_ Source is responsible for fragmentation.

Select correct option:

IPV4

IPV6

Question # 10 of 10 ( Start time: 04:58:56 PM ) Total Marks: 1

MTU Stands for \_\_\_\_\_

Select correct option:

Minimum transmission unit

Maximum transmission unit

Multicast transmission unit

None of the given

Question # 1 of 10 ( Start time: 10:18:08 PM ) Total Marks: 1

Every hardware technology specification includes the definition of the maximum size of the frame data area, which is called the \_\_\_\_\_ Transmission Unit.

Select correct option:

Least

Maximum

Fragment

Frame

Question # 2 of 10 ( Start time: 10:19:35 PM ) Total Marks: 1

IPV6 address with \_\_\_\_ leading zeros is interpreted to hold an IPV4 address.

Select correct option:

96

100

120

none of the given

Question # 3 of 10 ( Start time: 10:20:11 PM ) Total Marks: 1

\_\_\_\_\_ is a type of address used for collection of computers with same prefix.

Select correct option:

Cluster

unicast

Multicast

none of the given

Question # 4 of 10 ( Start time: 10:21:24 PM ) Total Marks: 1

\_\_\_\_\_ field is used to identify a specific path through the network

Select correct option:

FLOW LABEL

TRAFFIC CLASS

Both a and b

none of the given

Question # 5 of 10 ( Start time: 10:22:16 PM ) Total Marks: 1

\_\_\_\_\_ message is sent in response to incoming datagrams with problems.

Select correct option:

TCP/IP

IGMP

ICMP

none of the given

Question # 6 of 10 ( Start time: 10:22:56 PM ) Total Marks: 1

\_\_\_ Protocol provides error reporting mechanism.

Select correct option:

IGMP

SNMP

ICMP

none of the given

Question # 7 of 10 ( Start time: 10:23:53 PM ) Total Marks: 1

One of the parameters, which motivated IP for change is address space. The \_\_\_\_\_ address space allows for over a million networks. But most networks are class C and too small for many organizations.

Select correct option:

32-bit

128-bit

16-bit

64-bit

Question # 8 of 10 ( Start time: 10:24:41 PM ) Total Marks: 1

ICMP message transport is acted upon by getting ICMP \_\_\_\_\_ in IP.

Select correct option:

De-encapsulated

Encapsulated

Segmented

none of the given

Question # 9 of 10 ( Start time: 10:26:04 PM ) Total Marks: 1

Class A mask is 255.0.0.0 which is used for \_\_\_\_\_

Select correct option:

Unicasting

Multicasting

Subnetting

All of the given

Question # 10 of 10 ( Start time: 10:26:34 PM ) Total Marks: 1

Due to revolutionalization of IP-V6 the speed has increased from \_\_\_\_\_

Select correct option:

56kbps to 512kbps

512kbps to 1gbps

56kbps to 1gbps

none of the given

Question # 1 of 10 ( Start time: 10:29:35 PM ) Total Marks: 1

Which protocol is used to test different tools.

Select correct option:

ICMP

IGMP

TCP/IP

none of the given

Question # 2 of 10 ( Start time: 10:30:29 PM ) Total Marks: 1

Routers use \_\_\_\_\_ to forward datagrams along prearranged path.

Select correct option:

Traffic class

Flow label

Destination address

none of the given

Question # 3 of 10 ( Start time: 10:31:40 PM ) Total Marks: 1

\_\_\_\_\_ Source is responsible for fragmentation.

Select correct option:

IPV4

IPV6

Question # 4 of 10 ( Start time: 10:32:19 PM ) Total Marks: 1

Class A mask is 255.0.0.0 which is used for \_\_\_\_\_

Select correct option:

Unicasting

Multicasting

Subnetting

All of the given

Question # 5 of 10 ( Start time: 10:32:54 PM ) Total Marks: 1

For \_\_\_\_\_, information about forwarding is stored in a routing table, which is initialized at system initialization and must be updated as network topology changes.

Select correct option:

Efficiency

Security

Accuracy

Anomalies

Question # 6 of 10 ( Start time: 10:33:31 PM ) Total Marks: 1



Header contains all information needed to deliver datagram to the destination computer. But which one of the following is not included:

Select correct option:

Destination address

Source address

Rectifier

Other delivery information

Question # 7 of 10 ( Start time: 10:34:16 PM ) Total Marks: 1

ICMP message transport is acted upon by getting ICMP \_\_\_\_\_ in IP.

Select correct option:

De-encapsulated

Encapsulated

Segmented

none of the given

Question # 8 of 10 ( Start time: 10:35:11 PM ) Total Marks: 1

End to End delivery Service of IP datagram is \_\_\_\_\_

Select correct option:

Connection oriented

Connectionless

both a and b

none of the given

Question # 9 of 10 ( Start time: 10:36:10 PM ) Total Marks: 1

One of the parameters, which motivated IP for change is address space. The \_\_\_\_\_ address space allows for over a million networks. But most networks are class C and too small for many organizations.

Select correct option:

32-bit

128-bit

16-bit

64-bit

Question # 10 of 10 ( Start time: 10:37:07 PM ) Total Marks: 1

Address mask defines how many bits of address are in prefix.

Select correct option:

True

False

Quiz Start Time:  
09:22 PM

Time Left  
84  
sec(s)

Question # 1 of 10 (  
Start time:  
09:22:58 PM  
)

Total Marks:  
1

Class A mask is 255.0.0.0 which is used for \_\_\_\_\_

Select correct option:

Unicasting

Multicasting

Subnetting

All of the given

Quiz Start Time:  
09:22 PM

Time Left  
83  
sec(s)

Question # 2 of 10 ( )  
Start time:  
09:23:54 PM

Total Marks:  
1

IPV6 address with \_\_\_\_\_ leading zeros is interpreted to hold an IPV4 address.

Select correct option:

96

100

120

none of the given

Quiz Start Time:  
09:22 PM

Time Left  
39  
sec(s)

Question # 3 of 10 (

Start time:

09:24:23 PM

)

Total Marks:

1

ICMP message transport is acted upon by getting ICMP \_\_\_\_\_ in IP.

Select correct option:

De-encapsulated

**Encapsulated**

Segmented

none of the given

Quiz Start Time:  
09:22 PM

Time Left  
6  
sec(s)

Question # 5 of 10 (  
Start time:  
09:27:02 PM  
)

Total Marks:  
1

Routers use \_\_\_\_\_ to forward datagrams along prearranged path.

Select correct option:

Traffic class

Flow label

Destination address “doubt”

none of the given

Quiz Start Time:  
09:22 PM

Time Left  
81  
sec(s)

Question # 6 of 10 ( )  
Start time:  
09:28:29 PM

Total Marks:  
1

MTU Stands for \_\_\_\_\_

Select correct option:



Minimum transmission unit

**Maximum transmission unit**

Multicast transmission unit

None of the given

Quiz Start Time:  
09:22 PM

Time Left  
62  
sec(s)

Question # 7 of 10 (

Start time:

09:28:57 PM

)

Total Marks:

1

Preliminary version of IP was called \_\_\_\_\_.

Select correct option:

IP - New Generation (IPng)

**IP - Next Generation (IPng)**

IP - Net Generation (IPng)

None of the given

Quiz Start Time:  
09:22 PM

Time Left  
49  
sec(s)

Question # 8 of 10 (  
Start time:  
09:29:50 PM  
)

Total Marks:  
1

\_\_\_\_\_ contains all information needed to deliver datagram to the destination.

Select correct option:

**Header**

Data Area

Identifier

none of the given

Quiz Start Time:  
09:22 PM

Time Left  
39  
sec(s)

Question # 9 of 10 (  
Start time:  
09:31:17 PM  
)

Total Marks:  
1

\_\_\_\_\_field tells the receiver how to order fragments within a given datagram.

Select correct option:

FLAGS

FLAGMENT OFFSET

IDENTIFICATION

“not confirm”

None of the given

Quiz Start Time:  
09:22 PM

Time Left  
19  
sec(s)

Question # 10 of 10 (  
Start time:  
09:32:47 PM

)

Total Marks:  
1

Every hardware technology specification includes the definition of the maximum size of the frame data area, which is called the \_\_\_\_\_ Transmission Unit.

Select correct option:

Least

Maximum

Fragment

Frame

Question # 1 of 10 ( Start time: 10:29:45 PM

Total Marks: 1

Preliminary version of IP was called \_\_\_\_\_.



Select correct option:



IP - New Generation (IPng)

☐ IP - Next Generation (IPng)

☐ IP - Net Generation (IPng)

☐ None of the given

Question # 2 of 10 ( Start time: 10:30:33 PM )

Total Marks: 1

IP datagram can contains \_\_\_\_\_ octets.

▶ Select correct option:

☐ 0-65,535

☐ 1-65,535

☐ 1-65,536

☐ none of the given

Question # 3 of 10 ( Start time: 10:31:42 PM )

Total Marks: 1

Routers use \_\_\_\_\_ to forward datagrams along prearranged path.

▶ Select correct option:

☐ Traffic class

☐ Flow label

☐ Destination address

☐ none of the given

\_\_\_\_\_ Source is responsible for fragmentation.

▶ Select correct option:

☐ IPV4

☐ IPV6

The process of learning the path MTU is known as path MTU discovery.

▶ Select correct option:

☐ True

☐ False

Question # 6 of 10 ( Start time: 10:32:50 PM )

Total Marks: 1

A datagram cannot be larger than \_\_\_\_\_ of a network over which it is sent.

▶ Select correct option:

- ☐ MTU
- ☐ Size
- ☐ IP header
- ☐ None of the given

Question # 7 of 10 ( Start time: 10:33:31 PM )

Total Marks: 1

\_\_\_\_\_ layer Provides reliable delivery of datagram.

▶ Select correct option:

- ☐ Network
- ☐ Transport
- ☐ Datalink
- ☐ none of the given

# 8 of 10 ( Start time: 10:34:00 PM )

Total Marks: 1

There are \_\_\_\_\_ possibilities to detect the destination using Trace-route

▶ Select correct option:

- ☐ 1
- ☐ 2
- ☐ 3
- ☐ None of the given

Question # 9 of 10 ( Start time: 10:34:21 PM )

Total Marks: 1

\_\_\_\_\_ contains all information needed to deliver datagram to the destination.

▶ Select correct option:

- ☐ Header
- ☐ Data Area
- ☐ Identifier
- ☐ none of the given

IPv6 \_\_\_\_\_ is responsible for fragmentation. Routers simply drop datagram's larger than network

▶ Select correct option:



- ☐ Destination
- ☐ Intermediate routers
- ☐ Source
- ☐ Medium