

**CS601 Data Communication Solved MCQs Final Term (AI0)**

Which layer in ATM protocol reformats the data received from other networks?

- a. Physical
- b. Application adaptation
- c. Data adaptation
- d. ATM

The correct **answer** is b

Which layer in ATM protocol has a 53-byte cell as an end product?

- a. ATM
- b. Application adaptation
- c. Physical
- d. Cell transformation

The correct **answer** is a

Which AAL type is designed to support a data stream that has a constant bit rate?

- a. AAL1
- b. AAL2
- c. AAL3/4
- d. AAL5

The correct **answer** is a

The VPI of a UNI is bits in length.

- a. 12
- b. 16
- c. 24
- d. 8

The correct **answer** is d

In an ATM network, all cells belonging to a single message follow the same and remain in their original order until they reach their destination.

- a. Virtual circuit
- b. Transmission path
- c. Virtual path
- d. None of the above

The correct **answer** is a

A device called a(n) allows frames from an ATM network to be transmitted across a Frame Relay network.

- a. FRAD
- b. LMI
- c. VOFR
- d. DLCI

The correct **answer** is a

A provides a connection or a set of connections between switches.

- a. Transmission path
- b. Virtual circuit
- c. Virtual path
- d. None of the above

The correct **answer** is b

A \_ is the physical connection between an endpoint and a switch or between two switches.

- a. Virtual path
- b. Transmission path
- c. Virtual circuit
- d. None of the above

The correct **answer** is b

On a network that uses NAT, the has a translation table.

- a. Router
- b. Switch
- c. Server
- d. None of the above

The correct **answer** is a

Identify the class of IP address 229.1.2.3.

- a. Class A
- b. Class B
- c. Class C
- d. Class D

The correct **answer** is d

On a network that uses NAT, initiates the communication.

- a. An internal host
- b. An external host
- c. The router
- d. (a) or (b)

The correct **answer** is a

A subnet mask in class B can have \_ 1s with the remaining bits 0s.

- a. Nine
- b. Seventeen
- c. Three
- d. Fourteen

The correct **answer** is b

A subnet mask in class C can have 1s with the remaining bits 0s.

- a. Twenty-five
- b. Twelve
- c. Seven
- d. Ten

The correct **answer** is a

Identify the class of IP address 4.5.6.7.

- a. Class A
- b. Class B
- c. Class C
- d. Class D

The correct **answer** is a

Identify the class of IP address 191.1.2.3.

- a. Class A
- b. Class B
- c. Class C
- d. Class D

The correct **answer** is b

A subnet mask in class A can have 1s with the remaining bits 0s.

- a. Nine
- b. Four
- c. Thirty-three
- d. Three

The correct **answer** is a



Class \_ has the greatest number of hosts per given network address.

- a. A
- b. B
- c. C
- d. D

The correct **answer** is a

A subnet mask in class B has nineteen 1s. How many subnets does it define?

- a. 128
- b. 8
- c. 32
- d. 64

The correct **answer** is b

In \_ routing, the full IP address of a destination is given in the routing table.

- a. Next-hop
- b. Host-specific
- c. Network-specific
- d. Default

The correct **answer** is b

A subnet mask in class C has twenty-five 1s. How many subnets does it define?

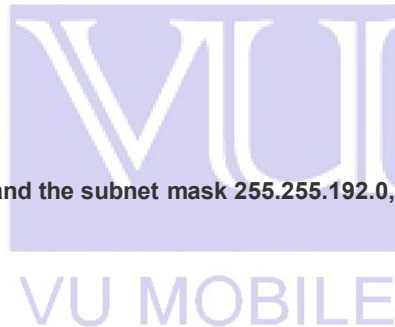
- a. 0
- b. 2
- c. 8
- d. 16

The correct **answer** is b

Given the IP address 180.25.21.172 and the subnet mask 255.255.192.0, what is the subnet address?

- a. 180.25.21.0
- b. 180.25.8.0
- c. 180.25.0.0
- d. 180.0.0.0

The correct **answer** is c



Given the IP address 18.250.31.14 and the subnet mask 255.240.0.0, what is the subnet address?

- a. 18.9.0.14
- b. 18.0.0.14
- c. 18.31.0.14
- d. 18.240.0.0

The correct **answer** is d

Is a client-server program that provides an IP address, subnet mask, IP address of a router, and IP address of a name server to a computer.

- a. NAT
- b. DHCP
- c. CIDR
- d. ISP

The correct **answer** is b

In \_, each packet of a message need not follow the same path from sender to receiver.

- a. The virtual approach to packet switching
- b. The datagram approach to packet switching
- c. Message switching

d. None of the above  
The correct **answer** is b

**An IP address consists of \_ bits.**

- a. 8
  - b. 32
  - c. 4
  - d. Any of the above
- The correct **answer** is b

**On a network that uses NAT, the router can use global address(es).**

- a. A pool of
  - b. One
  - c. Two
  - d. None of the above
- The correct **answer** is a

**In \_ routing, the mask and destination addresses are both 0.0.0.0 in the routing table.**

- a. Default
  - b. Next-hop
  - c. Network-specific
  - d. Host-specific
- The correct **answer** is a

**A subnet mask in class A has fourteen 1s. How many subnets does it define?**

- a. 64
  - b. 128
  - c. 32
  - d. 8
- The correct **answer** is a

**In which type of switching do all the packets of a message follow the same channels of a path?**

- a. Virtual circuit packet switching
  - b. Message switching
  - c. Datagram packet switching
  - d. None of the above
- The correct **answer** is a

**In \_ routing, the destination address is a network address in the routing table.**

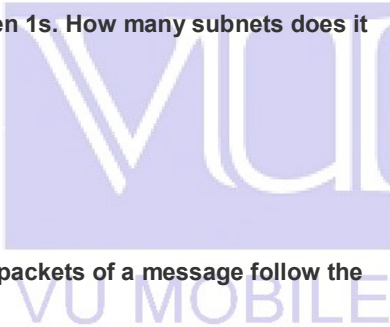
- a. Network-specific
  - b. Host-specific
  - c. Next-hop
  - d. Default
- The correct **answer** is a

**Given the IP address 201.14.78.65 and the subnet mask 255.255.255.224, what is the subnet address?**

- a. 201.14.78.64
  - b. 201.14.78.32
  - c. 201.14.78.65
  - d. 201.14.78.12
- The correct **answer** is a

**In error reporting the encapsulated ICMP packet goes to .**

- a. The receiver
- b. A router



- c. The sender
  - d. Any of the above
- The correct **answer** is c

**When the hop-count field reaches zero and the destination has not been reached, a error message is sent.**

- a. Destination-unreachable
  - b. Redirection
  - c. Time-exceeded
  - d. Parameter-problem
- The correct **answer** is c

**An ARP request is to .**

- a. Multicast; one host
  - b. Unicast; all hosts
  - c. Broadcast; all hosts
  - d. Unicast; one host
- The correct **answer** is c

**What is the maximum size of the data portion of the IP datagram?**

- a. 65,515 bytes
  - b. 65,535 bytes
  - c. 65,475 bytes
  - d. 65,460 bytes
- The correct **answer** is a

**A best-effort delivery service such as IP does not include .**

- a. Error correction
  - b. Error checking
  - c. Datagram acknowledgment
  - d. All the above
- The correct **answer** is d

**An HLEN value of decimal 10 means .**

- a. There is 10 bytes of options
  - b. There is 40 bytes in the header
  - c. There is 40 bytes of options
  - d. There is 10 bytes in the header
- The correct **answer** is b

**In IPv4, what is the value of the total length field in bytes if the header is 28 bytes and the data field is 400 bytes?**

- a. 407
  - b. 107
  - c. 428
  - d. 427
- The correct **answer** is c

**If the fragment offset has a value of 100, it means that .**

- a. The first byte of the datagram is byte 800
  - b. The datagram has not been fragmented
  - c. The datagram is 100 bytes in size
  - d. The first byte of the datagram is byte 100
- The correct **answer** is a

**What is needed to determine the number of the last byte of a fragment?**

- a. Identification number
- b. Offset number



- c. Total length
  - d. (b) and (c)
- The correct **answer** is d

**The IP header size .**

- a. Depends on the MTU
  - b. Is 20 to 60 bytes long
  - c. Is 20 bytes long
  - d. Is 60 bytes long
- The correct **answer** is b

**If a host needs to synchronize its clock with another host, it sends a \_ message.**

- a. Time-exceeded
  - b. Time-stamp-request
  - c. Source-quench
  - d. Router-advertisement
- The correct **answer** is b

**Which of the following is a necessary part of the IPv6 datagram?**

- a. Base header
  - b. Extension header
  - c. Data packet from the upper layer
  - d. (a) and (c)
- The correct **answer** is d

**Is a dynamic mapping protocol in which a physical address is found for a given IP address.**

- a. RARP
  - b. ICMP
  - c. ARP
  - d. None of the above
- The correct **answer** is c

**A router reads the address on a packet to determine the next hop.**

- a. MAC
  - b. Source
  - c. IP
  - d. ARP
- The correct **answer** is c

**The target hardware address on an Ethernet is \_ in an ARP request.**

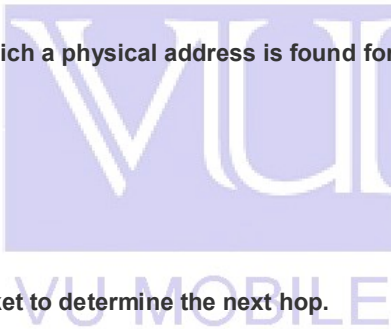
- a. Variable
  - b. Class-dependent
  - c. 0x000000000000
  - d. 0.0.0.0
- The correct **answer** is c

**When not all fragments of a message have been received within the designated amount of time, a error message is sent.**

- a. Time-exceeded
  - b. Parameter-problem
  - c. Source-quench
  - d. Time-stamp-request
- The correct **answer** is a

**A can learn about network by sending out a router-solicitation packet.**

- a. Router; routers
- b. Router; hosts



c. Host; routers  
 d. Host; hosts  
 The correct **answer** is c

**Which of the following types of ICMP messages needs to be encapsulated into an IP datagram?**

a. Time-exceeded  
 b. Multicasting  
 c. Echo reply  
 d. All the above  
 The correct **answer** is d

**The purpose of echo request and echo reply is to .**

a. Report errors  
 b. Check packet lifetime  
 c. Check node-to-node communication  
 d. Find IP addresses  
 The correct **answer** is c

**An ARP reply is to .**

a. Unicast; one host  
 b. Broadcast; all hosts  
 c. Multicast; one host  
 d. Unicast; all hosts  
 The correct **answer** is a

**One method to alert a source host of congestion is the message.**

a. Source-quench  
 b. Redirection  
 c. Echo-request  
 d. Destination-unreachable  
 The correct **answer** is a

**A time-exceeded message is generated if .**

a. The round-trip time between hosts is close to zero  
 b. The time-to-live field has a zero value  
 c. Fragments of a message do not arrive within a set time  
 d. (b) and (c)  
 The correct **answer** is d

**To determine whether a node is reachable, message can be sent.**

a. An echo-request  
 b. An echo-reply  
 c. A redirection  
 d. A source-quench  
 The correct **answer** is a

**In IPv6, the field in the base header restricts the lifetime of a datagram.**

a. Version  
 b. Hop limit  
 c. Priority  
 d. Next-header  
 The correct **answer** is b

**In IPv4, what is the length of the data field given an HLEN value of 12 and total length value of 40,000?**

a. 39,952  
 b. 39,988  
 c. 40,012  
 d. 40,048





The correct **answer** is a

**A datagram is fragmented into three smaller datagrams. Which of the following is true?**

- a. The do not fragment bit is set to 1 for all three datagrams.
- b. The identification field is the same for all three datagrams.
- c. The more fragment bit is set to 0 for all three datagrams.
- d. The offset field is the same for all three datagrams.

The correct **answer** is b

**Errors in the header or option fields of an IP datagram require a error message.**

- a. Source-quench
- b. Parameter-problem
- c. Router-solicitation
- d. Redirection

The correct **answer** is b

**The cost field of a router's first table from itself always has a value of .**

- a. Some positive integer
- b. 0
- c. 1
- d. Infinity

The correct **answer** is b

**A routing table contains .**

- a. The destination network ID
- b. The hop count to reach the network
- c. The router ID of the next hop
- d. All the above

The correct **answer** is d

**Router B receives an update from router A that indicates Net1 is two hops away. The next update from A says Net1 is five hops away. What value is entered in B's routing table for Net1? Assume the basic RIP is being used.**

- a. 6
- b. 7
- c. 2
- d. 3

The correct **answer** is a

**If the routing table contains four new entries, how many update messages must the router send to its one neighbor router?**

- a. 3
- b. 4
- c. 1
- d. 2

The correct **answer** is c

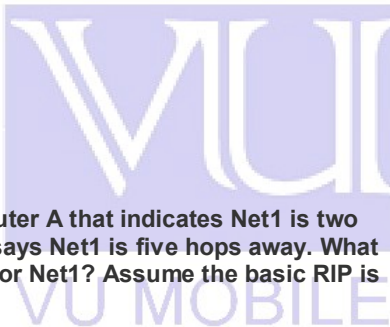
**An area border router can be connected to .**

- a. Only another router
- b. Only another network
- c. Only another area border router
- d. Another router or another network

The correct **answer** is d

**Which of the following usually has the least number of connections to other areas?**

- a. A transient link
- b. A stub link





- c. An area
  - d. An autonomous system
- The correct **answer** is b

Is used in a dense multicast environment while is used in a sparse multicast environment.

- a. PIM-SM; PIM-DM
  - b. PIM; PIM-DM
  - c. PIM; PIM-SM
  - d. PIM-DM; PIM-SM
- The correct **answer** is d

When a multicast router is not directly connected to another multicast router, a can be formed to connect the two.

- a. Logical core
  - b. Spanning tree
  - c. Physical tunnel
  - d. Logical tunnel
- The correct **answer** is d

Which type of network using the OSPF protocol can have five routers attached to it?

- a. Transient
  - b. Stub
  - c. Point-to-point
  - d. All the above
- The correct **answer** is a

A WAN using the OSPF protocol that connects two routers is an example of a type of OSPF network.

- a. Stub
  - b. Point-to-point
  - c. Transient
  - d. Virtual
- The correct **answer** is b

If four hosts on a network belong to the same group, a total of sent in

- a. One membership report is
  - b. Two membership reports are
  - c. Three membership reports are
  - d. Four membership reports are
- The correct **answer** is b

A one-to-all communication between a source and all hosts on a network is classified as a communication.

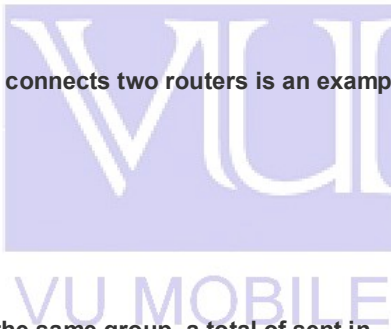
- a. Unicast
  - b. Multicast c.
  - Broadcast d.
  - (a) and (b)
- The correct **answer** is c

Which type of BGP message announces a route to a new destination?

- a. Update
  - b. Open
  - c. Keep-alive
  - d. Notification
- The correct **answer** is a

Which layer produces the OSPF message?

- a. Data link
- b. Transport



c. Application

d. Network

The correct **answer** is d

**Which of the following is an exterior routing protocol?**

a. RIP

b. OSPF

c. BGP

d. (a) and (b)

The correct **answer** is c

**An area is .**

a. Composed of at least two ASs

b. Another term for an internet

c. Part of an AS

d. A collection of stub areas

The correct **answer** is c

**In an autonomous system with n areas, how many areas are connected to the backbone?**

a. 1

b. n

c. n – 1

d. n + 1

The correct **answer** is c

**Which of the following is an interior routing protocol?**

a. RIP

b. OSPF

c. BGP

d. (a) and (b)

The correct **answer** is d

**OSPF is based on .**

a. Distance vector routing

b. Path vector routing

c. Link state routing

d. (a) and (b)

The correct **answer** is c

**BGP is based on .**

a. Distance vector routing

b. Link state routing

c. Path vector routing

d. (a) and (b)

The correct **answer** is c

**Which type of BGP message creates a relationship between two routers?**

a. Keep-alive

b. Open

c. Update

d. Notification

The correct **answer** is b

**Which type of network using the OSPF protocol always consists of just two connected routers?**

a. Transient

b. Stub

c. Point-to-point



d. Virtual  
The correct **answer** is c

**Which type of network using the OSPF protocol is the result of a break in a link between two routers?**

a. Virtual  
b. Point-to-point  
c. Transient  
d. Stub  
The correct **answer** is a

**Which type of BGP message is sent by a router to close a connection?**

a. Open  
b. Update  
c. Notification  
d. Keep-alive  
The correct **answer** is c

**An IGMP query is sent from a to a .**

a. Router; host or router  
b. Host; host  
c. Host; router  
d. Router; router  
The correct **answer** is a

**Which type of BGP message is sent by a system to notify another router of the sender's existence?**

a. Keep-alive  
b. Notification  
c. Open  
d. Update  
The correct **answer** is a

**An Ethernet LAN using the OSPF protocol with five attached routers can be called a network.**

a. Point-to-point  
b. Stub  
c. Transient  
d. Virtual  
The correct **answer** is c

**In distance vector routing each router receives information directly from .**

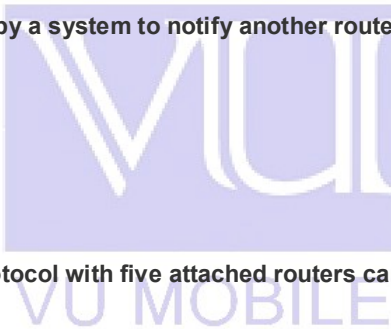
a. Its neighbors only  
b. Every router on the network  
c. Every router less than two units away  
d. A table stored by the network hosts  
The correct **answer** is a

**A system uses group-shared trees for multicasting. If there are 100 sources and 5 groups, there is a maximum of different trees.**

a. 20  
b. 100  
c. 5  
d. 500  
The correct **answer** is c

**Is a multicast routing protocol using source-based trees.**

a. DVRMP  
b. MOSPF



- c. CBT
  - d. (a) and (b)
- The correct **answer** is d

**Pruning and grafting are strategies used in .**

- a. RPM
  - b. RPF
  - c. RPB
  - d. All the above
- The correct **answer** is a

**In distance vector routing a router sends out information .**

- a. Only when there is a change in its table
  - b. Only when a new host is added
  - c. At regularly scheduled intervals
  - d. Only when a new network is added
- The correct **answer** is c

**The field of the IGMP message is all zeros in a query message.**

- a. Version
  - b. Type
  - c. Group address
  - d. Checksum
- The correct **answer** is c

**The field of the IGMP message is 0x11 for a query message.**

- a. Version
  - b. Type
  - c. Checksum
  - d. d. (a) and (b)
- The correct **answer** is d

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

- a. Multicast
  - b. Unicast
  - c. Broadcast
  - d. (a) and (b)
- The correct **answer** is a

**A one-to-one communication between a source and one destination is classified as a communication.**

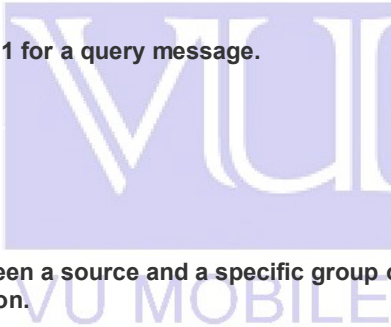
- a. Unicast
  - b. Multicast
  - c. Broadcast
  - d. d. (a) and (b)
- The correct **answer** is a

**Is a multicasting application.**

- a. Teleconferencing
  - b. Distance learning
  - c. Information dissemination
  - d. All the above
- The correct **answer** is d

**A is a data structure with nodes and edges and a hierarchical structure.**

- a. Graph
- b. Leaf



- c. Tree
- d. Root

The correct **answer** is c

**A system uses source-based trees for multicasting. If there are 100 sources and 5 groups, there is a maximum of different trees.**

- a. 5
- b. 20
- c. 100
- d. 500

The correct **answer** is d

**In a tree approach to multicasting, the combination of source and group determines the tree.**

- a. Shortest-group
- b. Source-based
- c. Spanning-source
- d. Group-shared

The correct **answer** is b

**In a tree approach to multicasting, the group determines the tree.**

- a. Group-shared
- b. Spanning-source
- c. Shortest-group
- d. Source-based

The correct **answer** is a

**Is a multicast routing protocol using group-shared trees.**

- a. DVRMP
- b. MOSPF
- c. CBT
- d. (a) and (b)

The correct **answer** is c

**In \_ a network can receive a multicast packet from a particular source only through a designated parent router.**

- a. RPF
- b. RPM
- c. RPB
- d. All the above

The correct **answer** is c

**Dijkstra's algorithm is used to .**

- a. Create LSAs
- b. Flood an internet with information
- c. Create a link state database
- d. Calculate the routing tables

The correct **answer** is d

**A message tells an upstream router to stop sending multicast messages for a specific group through a specific router.**

- a. Graft
- b. Prune
- c. Weed
- d. Plum

The correct **answer** is b

**The is used by a router in response to a received-leave report.**



- a. Special query message
- b. General query message
- c. Membership report
- d. Leave report

The correct **answer** is a

**RIP is based on .**

- a. Link state routing
- b. Dijkstra's algorithm
- c. Path vector routing
- d. Distance vector routing

The correct **answer** is d

**A message tells an upstream router to start sending multicast messages for a specific group through a specific router.**

- a. Weed
- b. Prune
- c. Plum
- d. Graft

The correct **answer** is d

**Uses multicast link state routing concepts to create source-based trees.**

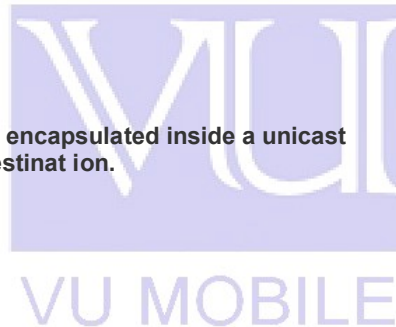
- a. DVMRP
- b. CBT
- c. BVD
- d. MOSPF

The correct **answer** is d

**In the protocol, a multicast packet is encapsulated inside a unicast packet with the core router as the destination.**

- a. DVMRP
- b. CBT
- c. MOSPF
- d. BVD

The correct **answer** is b



**The is an IGMP message.**

- a. Query message
- b. Membership report
- c. Leave report
- d. All the above

The correct **answer** is d

**The defines the client program.**

- a. Well-known port number
- b. Ephemeral port number
- c. IP address
- d. Physical address

The correct **answer** is b

**The timer is used in the termination phase.**

- a. Retransmission
- b. Time-waited
- c. Persistence
- d. Keep-alive

The correct **answer** is b

**Which is a legal port address?**

- a. 0
  - b. 513
  - c. 65,535
  - d. All the above
- The correct **answer** is d

The definition of reliable delivery includes .

- a. Error-free delivery
  - b. Receipt of the complete message
  - c. In-order delivery
  - d. All the above
- The correct **answer** is d

Which of the following does UDP guarantee?

- a. Acknowledgments to the sender
  - b. Flow control
  - c. Sequence numbers on each user datagram
  - d. None of the above
- The correct **answer** is d

The source port address on the UDP user datagram header defines .

- a. The sending computer
  - b. The receiving computer
  - c. The application program on the receiving computer
  - d. The application program on the sending computer
- The correct **answer** is d

A host can be identified by while a program running on the host can be identified by .

- a. A port number; an IP address
  - b. An IP address; a port number
  - c. An IP address; a host address
  - d. An IP address; a well-known port
- The correct **answer** is b



Which of the following is not part of the UDP user datagram header?

- a. Source port address
  - b. Checksum
  - c. Length of header
  - d. Destination port address
- The correct **answer** is c

The defines the server program.

- a. IP address
  - b. Well-known port number
  - c. Ephemeral port number
  - d. Physical address
- The correct **answer** is b

IP is responsible for communication while TCP is responsible for \_ communication.

- a. Process-to-process; node-to-node
  - b. Host-to-host; process-to-process
  - c. Process-to-process; host-to-host
  - d. Node-to-node; process-to-process
- The correct **answer** is b

The timer is needed to handle the zero window-size advertisement.



- a. Persistence
  - b. Keep-alive
  - c. Retransmission
  - d. Time-waited
- The correct **answer** is a

**Connection establishment involves a handshake.**

- a. Three-way
  - b. One-way
  - c. Two-way
  - d. None of the above
- The correct **answer** is a

**A special segment called a probe is sent by a sending TCP when the timer goes off.**

- a. Persistence
  - b. Transmission
  - c. Keep-alive
  - d. Time-waited
- The correct **answer** is a

**The address uniquely identifies a running application program.**

- a. IP address
  - b. NIC
  - c. Socket
  - d. Host
- The correct **answer** is c

**The field is used to order packets of a message.**

- a. Sequence number
  - b. Acknowledgment number
  - c. Urgent pointer
  - d. Checksum
- The correct **answer** is a

**The field is used for error detection.**

- a. Sequence number
  - b. Acknowledgment number
  - c. Urgent pointer
  - d. Checksum
- The correct **answer** is d

**Multiply the header length field by to find the total number of bytes in the TCP header.**

- a. 4
  - b. 6
  - c. 8
  - d. 2
- The correct **answer** is a

**Urgent data require the urgent pointer field as well as the URG bit in the field.**

- a. Sequence number
  - b. Control
  - c. Offset
  - d. Reserved
- The correct **answer** is b

**In , data are sent or processed at a very inefficient rate, such as 1 byte at a time.**

- a. Silly window syndrome
- b. Sliding window syndrome



- c. Nagle's syndrome
  - d. Delayed acknowledgment
- The correct **answer** is a

The timer keeps track of the time between the sending of a segment and the receipt of an acknowledgment.

- a. Time-waited
  - b. Retransmission
  - c. Persistence
  - d. Keep-alive
- The correct **answer** is b

To prevent silly window syndrome created by a receiver that processes data at a very slow rate, can be used.

- a. Clark's solution
  - b. Nagle's algorithm
  - c. Delayed acknowledgment
  - d. (a) or (c)
- The correct **answer** is d

To prevent silly window syndrome created by a sender that sends data at a very slow rate, can be used.

- a. Nagle's algorithm
  - b. Clark's solution
  - c. Delayed acknowledgment
  - d. (a) or (c)
- The correct **answer** is a

An ACK number of 1000 always means that .

- a. 999 bytes has been successfully received
  - b. 1000 bytes has been successfully received
  - c. 1001 bytes has been successfully received
  - d. None of the above
- The correct **answer** is d

The timer prevents a long idle connection between two TCPs.

- a. Keep-alive
  - b. Time-waited
  - c. Retransmission
  - d. Persistence
- The correct **answer** is a

UDP and TCP are both \_ layer protocols.

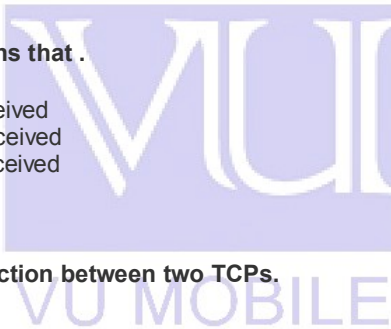
- a. Physical
  - b. Data link
  - c. Network
  - d. Transport
- The correct **answer** is d

Which of the following functions does UDP perform?

- a. End-to-end reliable data delivery
  - b. Process-to-process communication
  - c. Host-to-host communication
  - d. All the above
- The correct **answer** is b

UDP needs the address to deliver the user datagram to the correct application program.

- a. Application
- b. Internet
- c. Physical



d. Port

The correct **answer** is d

**Karn's algorithm is used in calculations by the timer.**

a. a. Time-waited

b. Retransmission

c. Persistence

d. Keep-alive

The correct **answer** is b

**Slow start is used in conjunction with as a TCP congestion control strategy.**

a. Multiplicative increase

b. Multiplicative decrease

c. Additive increase

d. Additive decrease

The correct **answer** is c

**The maximum length of time that traffic is generated at the peak rate is called the .**

a. Effective bandwidth

b. Average data rate

c. Maximum burst size

d. Constant bit rate

The correct **answer** is c

**For a system using TCP, the sender window size is determined by the window size.**

a. Receiver

b. Sender

c. Congestion

d. (a) and (c)

The correct **answer** is d

**Traffic features sudden data rate changes in very short periods of time.**

a. Constant-bit-rate

b. Bursty

c. Variable-bit-rate

d. Peak-bit-rate

The correct **answer** is b

**When the load is greater than the capacity, the delay .**

a. Decreases

b. Goes to infinity

c. Increases linearly

d. Goes to zero

The correct **answer** is b

**Is a closed-loop mechanism to alleviate congestion.**

a. A choke point

b. Implicit signaling

c. Explicit signaling

d. All the above

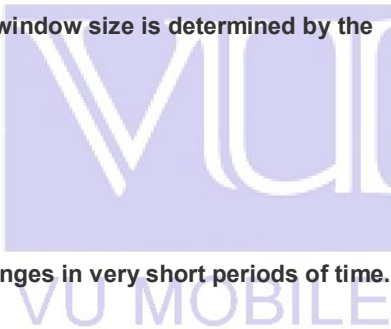
The correct **answer** is d

**The FECN informs the of congestion while the BECN informs the \_ of congestion.**

a. Sender; destination

b. Interface; sender

c. Destination; interface



d. Destination; sender  
The correct **answer** is d

The is the maximum data rate of the traffic.

- a. Average data rate
  - b. Maximum burst size
  - c. Effective bandwidth
  - d. Peak data rate
- The correct **answer** is d

Is a flow characteristic in which the delay varies for packets belonging to the same flow.

- a. Choke point
  - b. Additive increase
  - c. Jitter
  - d. Throughput
- The correct **answer** is b

In \_ queuing the first packet into the queue is the first packet out of the queue.

- a. Priority
  - b. Weighted fair
  - c. FIFO
  - d. LIFO
- The correct **answer** is c

In Frame Relay the transmission rate can never exceed .

- a. Bc
  - b. The access rate
  - c. Be
  - d. CIR
- The correct **answer** is b

Measures the variation in cell transmission time.

- a. SCR
  - b. CVDT
  - c. PCR
  - d. MCR
- The correct **answer** is b

If the SCR is 60,000, the PCR is 70,000, and the MCR is 55,000, what is the minimum number of cells that can be sent per second?

- a. 60,000
  - b. 70,000
  - c. 55,000
  - d. 5000
- The correct **answer** is c

The traffic shaping method gives a host credit for its idle time.

- a. Leaky bucket
  - b. Traffic bucket
  - c. Token bucket
  - d. Bursty bucket
- The correct **answer** is c

A flow-based QoS model designed for IP is called .

- a. RSVP
- b. Integrated Services
- c. Differentiated Services



d. Multicast trees  
The correct **answer** is b

**A signaling protocol that helps IP create a flow is called .**

a. RSVP  
b. Integrated Services  
c. Differentiated Services  
d. Multicast trees  
The correct **answer** is a

**RSVP uses \_ messages.**

a. Path  
b. Resv  
c. Resource  
d. (a) and (b)  
The correct **answer** is d

**In an RSVP reservation style called filter, the router creates a single reservation that can be shared by a set of flows.**

a. Fixed  
b. Shared explicit  
c. Wild card  
d. All the above  
The correct **answer** is b

**Differentiated Services was designed to handle the problem associated with Integrated Services.**

a. Stability  
b. Reservation  
c. Scalability  
d. All the above  
The correct **answer** is c

**A is a Differentiated Services traffic conditioner.**

a. Meter  
b. Marker  
c. Shaper  
The correct **answer** is c

**What is the relationship between the access rate and the CIR?**

a. CIR plus Be is equal to the access rate.  
b. CIR is always equal to the access rate.  
c. CIR is greater than the access rate.  
d. CIR is less than the access rate.  
The correct **answer** is d

**If the maximum CTD is 10  $\mu$ s and the minimum CTD is 1  $\mu$ s, the \_ is 9  $\mu$ s.**

a. CDV  
b. CLR  
c. CTD  
d. CER  
The correct **answer** is a

**A Frame Relay network is committed to transfer bps without discarding any frames.**

a. Be  
b. Bc  
c. CIR



d. (a) and (b)

The correct **answer** is b

**The effective bandwidth is based on .**

- a. Average data rate
- b. Peak data rate
- c. Maximum burst size
- d. All the above

The correct **answer** is d

**The cell is the difference between the CTD maximum and minimum.**

- a. Delay variation
- b. Error ratio
- c. Loss ratio
- d. Transfer delay

The correct **answer** is a

**The cell is the ratio of lost cells to cells sent.**

- a. Delay variation
- b. Error ratio
- c. Loss ratio
- d. Transfer delay

The correct **answer** is c

**The service class is particularly suitable for applications with bursty data.**

- a. CBR
- b. ABR
- c. VBR
- d. UBR

The correct **answer** is b

**The service class is suitable for customers who need real-time video transmission without compression.**

- a. ABR
- b. CBR
- c. VBR
- d. UBR

The correct **answer** is b

**The is greater than the SCR.**

- a. MCR
- b. CVDT
- c. PCR
- d. All the above

The correct **answer** is c

**The is the fraction of the cells delivered in error.**

- a. CLR
- b. CER
- c. CTD
- d. CDV

The correct **answer** is b

**When added to Be, Bc should be less than the .**

- a. CIR
- b. Committed burst size



- c. Access rate  
d. (a) and (b)  
The correct **answer** is c

X



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