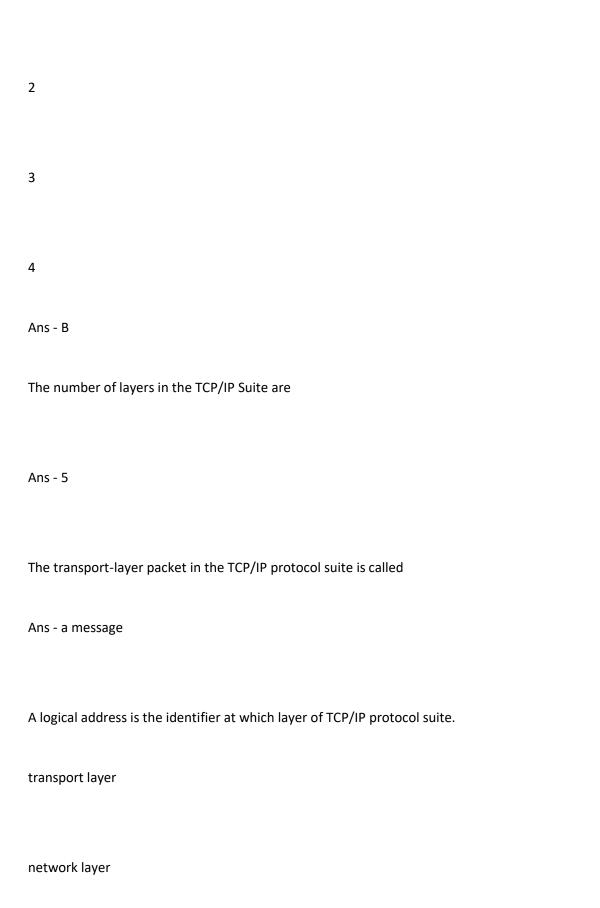
The largest geographic area a wide area network (WAN) can span is	
a town	
a state	
a country	
, and the second	
the world	
Ans - D	
Alls - D	
The transport-layer packet in the TCP/IP protocol suite is called	
a message	
a datagram	

a segment or a user datagram
a frame
Ans - C
The data link layer includes
Data link control only
MAC sublayer only
Both DLC and MAC sublayer
None of the above
Ans - B
A link-layer switch is involved in layers of the TCP/IP protocol suite.



data-link layer
application layer
Ans - B
A link-layer switch is involved in layers of the TCP/IP protocol suite. Ans - 2
In TCP/IP, a message belonging to the transport layer is de-capsulated from a packet at which layer?
network
transport
data link
physical
Ans - C
A router works at which of the layers

Ans - Network layer
The largest geographic area a wide area network (WAN) can span is
a town
a state
a country
a country
the world Ans - d
Which of this is not a guided media?
Fiber optical cable
Coaxial cable

Wireless LAN
Copper wire
Ans - c
Which of the following is not an example of Transmission media
Radio Waves
Micro Waves
Total internal refraction
All of the above Ans - D
Total internal Reflection is a property associated with
Coaxial Cable

STP cable

500 samples/s
Ans - D
The application layer in the TCP/IP protocol suite is usually considered to be the combination of which layers in the OSI model?
Application, transport, and session
Application, presentation, and session
Application, presentation, and network
Application, presentation, and transport Ans - B
f signal is having frequency range from 100hz to 300hz what will be sampling frequency require for faithful reconstruction
600
500

1200
1000
What will be the values of SNRdB for a noiseless channel?
0 dB
1 dB
10 dB
Infinity
UTP is used often in which of the following applications
LAN
TV cable
Optical Fiber

All of the above
Ans - A
Coaxial cable consists of concentric copper conductors Ans - 2
Which layer is responsible for the delivery of a message from one process to another?
network
transport
physical
application Ans - B
Digital to analog conversion takes place at
physical layer

Application layer
Network Layer
None of the above
Ans - A
If signal having maximum frequency of 99hz what will be the sampling rate required to achieve faithful reconstruction.
Ans - 198
Which of the following is not an analog-to-analog conversion?
AM
PCM
FM
PM

Ans - B
Byte stuffing is a process of adding 1 extra byte to identify
flag in the text message
escape character in the test message
Both flag and escape character in the test message
none of the above Ans - C
What type of transmission impairment, signal loses strength due to the resistance of transmission medium ?
Noise
Distortion

Attenuation
All of the above Ans - C
Which of the following is the multiple access protocol for channel access control? Ans - C Both CSMA/CD & CSMA/CA
The size of preamble in MAC frame is
5 Byte
6 Byte
7 Byte
8 Byte
Ans - C

Which sublayer of the data link layer performs data link functions that depend upon the type of medium?
logical link control sublayer
media access control sublayer
network interface control sublayer
error control sublayer Ans - b
Which of the following is not a cause of transmission impairment?
Distortion
Throughput
Noise
Attenuation

Ans - B
Burst errors are common in
Serial Communication
parallel Communication
Both A and B
None of the above
Ans - A
What will be the values of SNRdB for a noiseless channel?
0 dB
1 dB
10 dB

Infinity
Ans - D
IPv6 header size is
Ans - 40 bytes
A digital signal has 10 levels. How many bits are needed per level?
3
4
4
8
10
Ans - A
Datagram approach is a

Connection Oriented Service

Connectionless Service
Both A and B
None of the above
Ans - B
The maximum size of the payload in IPv6 datagram is
Ans - 65535
Which of the following IPv4 address is/are correct
128.010.10.5
192.256.10.5
Both A and B

None of the above
Ans - B
In which protocol, the chance of collision can be reduced if a station senses the medium before trying to use it ?
TDMA
TDMA
CSMA
CDMA
FDMA
Ans - B
In a network layer, the total delay is
Propagation and Transmission Delay Only
Processing Delay Only

Queuing Delay Only
All of the above
Ans - D
In a Go-Back-N ARQ, if the window size is 63, what is the range of sequence numbers?
0 to 63
0 to 64
1 to 63
1 to 64
Ans - A
How much times of channel throughout of slotted ALOHA will be in comparison to pure ALOHA?
same
double

three times
four times
Ans - B
An IPv4 class-C have a block size of
32
64
128
256
IPv4 address protocol system can use
dotted-decimal notation

binary notation

both dotted-decimal notation and binary notation
none of the above
In an IP packet, the value of HLEN is 516 and the value of the total length field is 002816. How many bytes of data are being carried by this packet?
10
20
30
40
Ans - B
Given a network 195.50.100.0 be divided into two equal subnetworks, the subnet mask will be

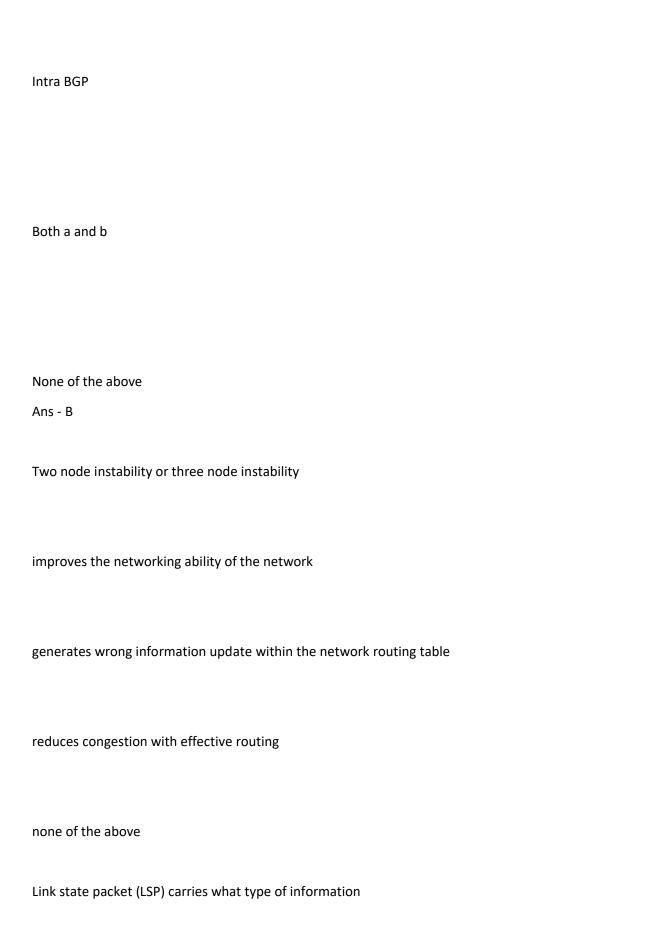
255.255.255.0

255.255.255.128
255.255.255.192
255.255.255.224 Ans - A
What is needed to determine the number of the last byte of a fragment?
total length
offset number
both offset number and the total length
None of the choices are correct Ans - C

An class-D have number of blocks .
1
64
128
255
Discarding policy is associated with congestion control categories.
Open Loop
Closed Loop
Both A and B
None of the above

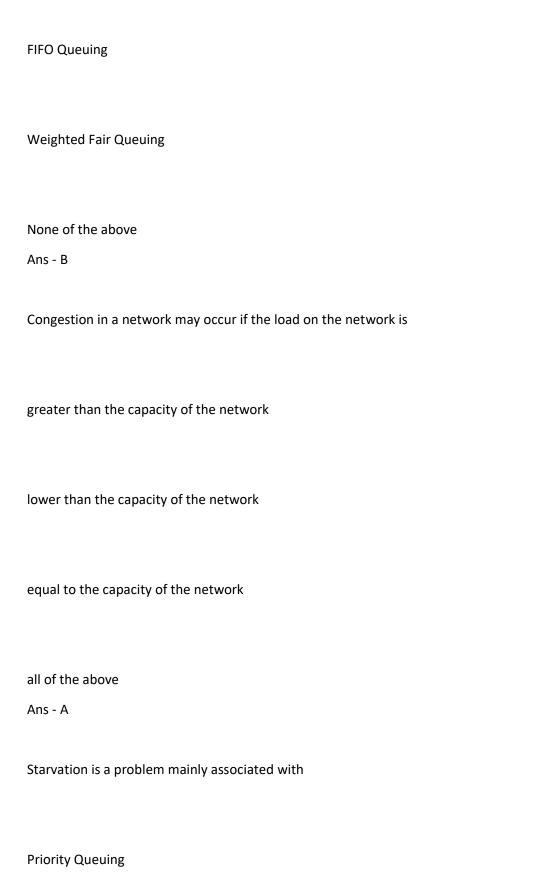
The idea of address aggregation was designed to alleviate the increase in routing table entries when using which type of addressing.
classful
classless
classful or classless
None of the above
Ans - B
n link state routing, link state packet (LSP) is generated
periodically
randomly
when there is no change in topology

All of the above Ans - A
In a Routing Information Protocol (RIP)
all networks are equal
networks may or may not be equal
all network are unequal
None of the above Ans - B
which of the following do not stands for I-BGP
Internal BGP



node identity
list of links
sequence number
All of the above Distance vector Routing Table updates can be done
periodically only
based on the trigger of a change in network only

Can be a combination of periodic as well as triggered update
randomly only Ans - C
Two node instability is problem of which protocol
Routing Information Protocol
Distance vector routing
Link state routing
Open Shortest Path First Ans - C
Starvation is a problem mainly associated with
Priority Queuing



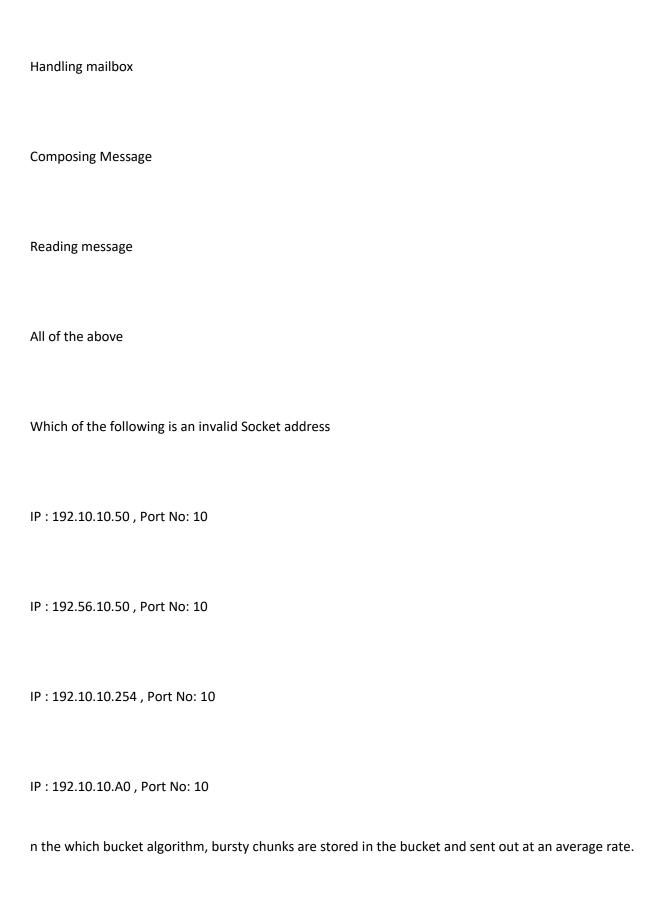
FIFO Queuing
Weighted Fair Queuing
None of the above
Ans - A
You have a network that needs 79 subnets while maximizing the number of host addresses available on each subnet. How many bits must you borrow from the host field to provide the correct subnet mask?
4
5
6
7
Ans - D
Leaky Bucket is an example of

Traffic shaping technique
Scheduling Technique
Resource reservation Technique
Admission Control Technique
Ans - A
which of the following are correct steps for Path Vector Routing
Initialization
Sharing
Sharing

all of the above
Ans - D
The subnet mask of 20.30.50.0/25 is?
255.255.128.0
255.255.255.128
255.0.0.0
255.255.255.127
Ans - C
If a packet passes through 100 networks to reach the destination, the total cost is hop counts.
100

1000
99
Ans - A
In a network, Which of the following is/are a type of traffic profile
Constant Bit Rate
Burst Bit Rate
Variable Bit Rate
All of the above
Ans - D
ICMP,IGMP and ARP protocols belongs to which layer of TCP/IP suite
Application

Transport
Network
Data link
UDP is
connectionless
unreliable
both unreliable and connectionless
none of the above
The Routing Information Protocol (RIP) is an intradomain routing based on routing. Ans - Distance vector
Which of the following is correct as per Services of user agent



leaky
token
either (a) or (b)
neither (a) nor (b) Ans - A
What is the default prefix length for class A in CIDR notation? Ans - 8
Which of the following can be considered as Generic domain label
biz
int
mil

all of the above
The header of the user datagram format of the UDP includes
Port number
total length
checksum
All of the above
Ans - C
The domain name space (tree) do not include
generic domains
country domains

inverse domain
none of the above
Which parameter decides the variation in delay for packets belonging to the same flow.
Jitter
Delay
Reliability
Bandwidth Ans - A
TCP segment format use bits for source port address

16
32
64
In distance vector routing, each node periodically shares its routing table with and whenever there is a change.
every other node
its immediate neighbors
one neighbor
None of the choices are correct Ans - B
Virtual Connection Circuit is under Ans - TCP

Which was originally developed to provide a loop-free method of exchanging routing information between autonomous systems.
OSPF
BGP
RIP
EIGRP
Ans - B
TCP segment format use bits for sequence number
8
16
32

64
Ans - C
Which supports the simultaneous use of multiple unequal cost paths to a destination?
EIGRP
RIP
OSPF
BGP
Ans - A
SCTP is a
connection-oriented protocol
connection-less protocol

both the above options are right
none of the above
Ans - B
UDP is an acronym for
Ans - User data protocol
Who provides service to the user to make the process of sending or receiving a message easier.
A UA
A 0A
An MTA
An MAA
None of the choices are correct
Ans - A
The domain name system is maintained by
The domain name system is maintained by

distributed database system
a single server
a single computer
none of the above Ans - A
An e-mail message contains the and the
header; body
header; envelop
envelop; body
None of the choices are correct Ans - A