<u>Dashboard</u> / My courses / <u>CS301 2023</u> / <u>General</u> / <u>End Sem Exam 22.12.2023 9.00 AM to 12.00 PM</u>

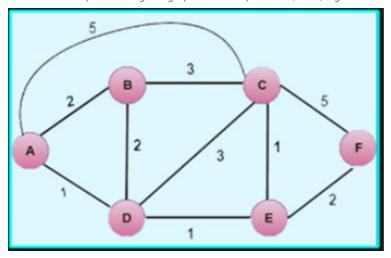
Started on	Friday, 22 December 2023, 9:00 AM
State	Finished
Time taken	Friday, 22 December 2023, 10:36 AM 1 hour 36 mins
	81.00 out of 100.00
Grade	61.00 Out of 100.00
Question 1	
Complete	
Mark 1.00 out of 1.00	
Which layer is respo	onsible for the process to process delivery in a general network model?
a. session layer	
b. network laye	er en
oc. data link laye	er er
d. transport lay	er
The correct answer	ie:
transport layer	
Question 2	
Complete	
Mark 0.00 out of 1.00	
How are MAC addre	esses learned and associated with the port?
 Source interface 	ce learning
Destination Ma	AC address learning
O Destination int	terface learning
 Source MAC a 	ddress learning
The correct answer Source MAC addres	

Question **3**

Complete

Mark 0.00 out of 1.00

Find the shortest path routing using open shortest path first (OSFP) algorithm for the following network graph. Start from node A.



- a. None of these
- b. (A,0,-) (B,2,B or D), (C,3,D or E), (D,1,D), (E,2,D), (F,4,D or E)
- o. (A,0,-) (B,3,C or E), (C,3,B or F), (D,1,D), (E,2,D), (F,4,F)
- od. (A,0,-) (B,2,B), (C,5,F), (D,2,B), (E,2,D), (F,2,E)

The correct answer is:

(A,0,-) (B,2,B or D), (C,3,D or E), (D,1,D), (E,2,D), (F,4,D or E)

Question **4**

Complete

Mark 1.00 out of 1.00

- a. 5A115514AA0F
- b. None of these
- o. 5A1155189A0E
- o d. 5A115518AA0F

The correct answer is: 5A115518AA0F

Question 5 Complete
Mark 1.00 out of 1.00
The transport layer protocols used for real time multimedia, file transfer, DNS, and email respectively are
a. TCP, UDP, UDP and TCP
○ b. UDP, TCP, TCP and UDP
○ c. TCP, UDP, TCP and UDP
o d. UDP, TCP, UDP and TCP
The correct answer is: UDP, TCP, UDP and TCP
Question 6
Complete Mark 0.00 page 64.00
Mark 0.00 out of 1.00
Transport layer deals withcommunication.
a. application-to-application
b. node-to-node
○ c. process-to-process
O d. person-to-person
The correct answer is: process-to-process

Question 7
Complete
Mark 1.00 out of 1.00
What are not the responsibilities of the Data link Layer?
a. IP addressing
○ b. MAC addressing
WINC dudiessing
○ c. Framing
O d. Error detection
The correct answer is: IP addressing
Question 8
Complete
Mark 1.00 out of 1.00
An organization is granted the block 130.34.12.64/26. Find the maximum number of host addresses that can be assigned for this network?
○ a. 18
O b. 32
O c. 256
d. None of these
The correct answer is:

Question 9 Complete
Mark 1.00 out of 1.00
Which one of the following is the start frame delimiter (SDF) flag in Ethernet frame
a. 00000000
b. 10101011
O c. 11111111
O d. 10101010
The correct answer is: 10101011
Question 10
Complete Mark 1.00 out of 1.00
Mark 1.00 out of 1.00
The Dynamic Host Configuration Protocol server
a. grants an IP address when a client requests.
b. maintains the information about client configuration parameters.
C. All of these
d. maintains a pool of available IP addresses.
The correct answer is: All of these

Question 11
Complete
Mark 1.00 out of 1.00
To avoid collisions on wireless networks,was invented.
a. None of these
O b. Ethernet
○ c. CSMA/CD
The correct answer is: CSMA/CA
Question 12
Question 12 Complete
Mark 1.00 out of 1.00
Which one of the following is TRUE about- routing information protocol (RIP) and open shortest path first (OSPF) protocol?
a. Both RIP and OSPF use distance vector routing
b. RIP uses distance vector routing and OSPF use link state routing
c. Both RIP and OSPF use link state routing
d. OSPF uses distance vector routing and RIP use link state routing
The correct answer is: RIP uses distance vector routing and OSPF use link state routing
and the second second second and the second

Question 13
Complete
Mark 1.00 out of 1.00
Dynamic Host Configuration Protocol is used for
a. None of these
○ b. IPV6
O c. IPV4
d. both IPV4 and IPV6
The correct answer is:
both IPV4 and IPV6
Question 14
Complete
Mark 1.00 out of 1.00
In Carrier Sense Multiple Access which node senses the channel, if idle it sends the data, otherwise it checks the medium after a
random amount of time (not continuously) and transmits when found idle.
O a 1 newsistent
○ a. 1-persistent
b. Non-persistent
○ c. O-persistent
Od B paraistant
○ d. P-persistent
The correct answer is:
Non-persistent

Question 15
Complete
Mark 1.00 out of 1.00
Which of the following is not a limitation of IPV4 addresses?
a. IPV4 lacks end-to-end connectivity
II V Hacks and to this connectivity
 b. IPV4 suffers from IP address depletion
c. IPV4 cannot handle internet routing table expansion
d. IPV4 fits for small topology drawing
The correct answer is: IPV4 fits for small topology drawing
ir v4 hts for small topology drawing
Question 16
Complete Mark 1.00 out of 1.00
Mark 1.00 Cut of 1.00
Casting A constant to the second state of the
Station A uses 45 byte packets to transmit messages to Station B using a sliding window protocol. The round trip time delay between A and B is 60ms and the bottleneck bandwidth on the path A and B is 120kbps. What is the optimal window size that A should use?
○ a. 20
O b. 31
⊚ c. 21
O d Name of the co
○ d. None of these
The correct answer is:
21
Question 17
Complete
Mark 1.00 out of 1.00
In which type of applications is UDP commonly used due to its characteristics?
a. File transfer
b. Email communication
○ c. Web browsing
d. Real-time streaming and online gaming
The correct answer is:

Real-time streaming and online gaming

Question 18 Complete
Mark 1.00 out of 1.00
Which is of the following statement is incorrect,
A shared broadcast media of transmission bandwidth 20 Mbps is shared by 100 users then,
a. Using CDMA scheme, each of the users have an access to 20 Mbps of bandwidth
 b. Using TDMA scheme, each of the users have an access to 200 Kbps of bandwidth
c. Using CDMA scheme, each of the users have an access to 200 Kbps of bandwidth
 d. Using FDMA scheme, each of the users have an access to 200 Kbps of bandwidth
The correct answer is:
Using CDMA scheme, each of the users have an access to 200 Kbps of bandwidth
Question 19
Complete Mark 1.00 out of 1.00
Routing inside a single administrative domain is called as routing.
a. None of these
○ b. Path Vector
© C. Intra-domain
○ d. Inter-domain
The correct answer is:
Intra-domain

Question 20
Complete
Mark 1.00 out of 1.00
Consider three devices A, B, and C with IP addresses 10.105.1.30, 10.105.1.33 and 10.105.1.34 respectively. The subnet mask is set to 255.255.255.224 for all the three devices. Which one of the following is true?
a. Only A and B belong to same subnet
b. only B and C belongs to same subnet
○ c. A, B, and C all belongs to three different subnets
○ d. A, B, and C all belongs to the same subnet
The correct answer is:
only B and C belongs to same subnet
Question 21
Complete
Mark 1.00 out of 1.00
An organization follows class B for their internal network. One of the host in the organization has an IP address 162.198.20.1. What will be the number of possible network addresses and host addresses? What will the broadcast address of the network?
a. Network addresses 16384, Host addresses 65536, Broadcast address 162.255.255
b. Network addresses 16384, Host addresses 65534, Broadcast address 162.255.255.255
c. Network addresses 16384, Host addresses 65534, Broadcast address 255.255.255.255
od. Network addresses 65536, Host addresses 65534, Broadcast address 255.255.255.255
The correct answer is:
Network addresses 16384, Host addresses 65534, Broadcast address 162.255.255

Question 22
Complete
Mark 0.00 out of 1.00
What is the role of logical link control sublayer in layer 2?
a. Connection Establishment
○ b. Error detection
C. Acknowledgment
○ d. Sequencing
The correct answer is:
Error detection
Question 23
Complete
Mark 1.00 out of 1.00
Suppose a packet of length 512 bits travels from one router R1 to another router R2 located at 200 kms distance through Ethernet
cable. The transmission rate of the cable is 200 bps and the propagation speed of the cable is 20 kms/min. Then the propagation and transmission delay of the packet to reaches from R1 to R2 is
a. 600 secs, 2.56 secs

o b. 600 secs, 10 secs

C. 1200 secs, 2.56 secs

od. 1200 secs, 10 secs

The correct answer is: 600 secs, 2.56 secs

What information is typically included in each entry of the MAC address table?

- a. MAC address and Port Number
- b. IP address and subnet mask
- oc. MAC address and IP address
- Od. Frame size and type

The correct answer is:

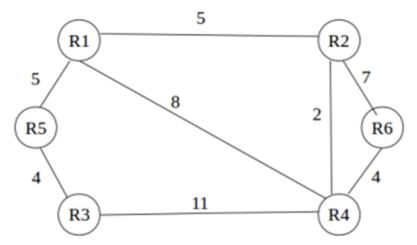
MAC address and Port Number

Question 25

Complete

Mark 1.00 out of 1.00

Explain the distance vector routing algorithm by running it for the following graph. Calculate the shortest distance from source R5 to destination R4.



- a. 12
- O b. 11
- O c. 10
- od. None of these

The correct answer is:

12

Question 26
Complete
Mark 1.00 out of 1.00
What is default subnet mask address of this IPV4 address 11011111 11110111 11000111 00011101?
○ a. 255.255.255
O b. 255.0.0.0
⊚ c. 255.255.255.0
○ d. 255.255.0.0
The correct answer is:
255.255.255.0
Question 27
Complete
Mark 1.00 out of 1.00
is an inter-domain routing protocol using path vector routing.
○ a. RIP
○ b. EIGRP
○ c. OSPF
⊚ d. BGP
The correct answer is:
BGP

Question 28
Complete
Mark 1.00 out of 1.00
What is the purpose of MAC address learning in network switches?
a. To power on and restart the switch
○ b. To initiate frame forwarding
c. To flood frames throughout the network
 d. To build and maintain a MAC address table
The correct answer is: To build and maintain a MAC address table
Question 29 Complete
Mark 1.00 out of 1.00
A shared broadcast medium of transmission rate 5 Mbps is being shared by 10 users (U1, U2,U10). Calculate the maximum transmission rate of each of the users if the channel access scheme used is FDMA. If instead of FDMA the scheme being used is CDMA then what will be the maximum transmission rate of each of the users?
a. None of these
b. 500 Kbps, 5000 Kbps
○ c. 50 Mbps, 5 Mbps
○ d. 5000 Kbps, 5000 Kbps

The correct answer is: 500 Kbps, 5000 Kbps

Question 30
Complete
Mark 1.00 out of 1.00
An organization is granted the block 130.34.12.64/30 . Find the maximum number of host addresses that can be assigned for this network?
○ a. None of these
O c. 8
O d. 4
The correct answer is:
Question 31 Complete Mark 1.00 out of 1.00
Which of the following is true for Address Resolution Protocol (ARP)?
a. ARP request is broadcast and ARP reply is unicast.
 b. ARP request is unicast and ARP reply is broadcast.
C. ARP request is unicast and ARP reply is also unicast.
d. ARP request is broadcast and ARP reply is also broadcast.
The correct answer is:
ARP request is broadcast and ARP reply is unicast.

Question 32
Complete
Mark 1.00 out of 1.00
Which of the following routing algorithms can be used for network layer design?
 a. link state routing
b. All of these
c. shortest path algorithm
 d. distance vector routing
The correct answer is:
All of these
Question 33
Complete Mark 1.00 out of 1.00
Walk 1.00 dut of 1.00
The header length of IPV6 datagram is
a. 60 bytes
○ b. 25 bytes
⊚ c. 40 bytes
O d. 20 bytes
The correct answer is: 40 bytes

Question 34
Complete
Mark 1.00 out of 1.00
For a given subnet mask 255.128.0.0, what is the number of subnets?
O b. 8
O c. 6
\bigcirc d. $_4$
The correct answer is:
2
Question 35
Complete
Mark 0.00 out of 1.00
In UDP, if data is lost in the middle, what will be the next action?
Select one:
O No data sending will be done
It will be retransmitted until it reaches to its destination
It will be ignored and the next packet will be transmitted
O None of the above
The correct answer is: It will be ignored and the next packet will be transmitted

Question 36
Complete Mark 0.00 out of 1.00
Mark 0.00 out of 1.00
An organization follows Class C for their internal network. One of the host in the organization has an IP address 162.198.20.1. What will be the number of possible network addresses and host addresses? What will the broadcast address of the network?
a. Network addresses 2097152, Host addresses 254, Broadcast address 162.198.20.255
b. Network addresses 2097152, Host addresses 254, Broadcast address 162.198.255.255
C. Network addresses 16384, Host addresses 65534, Broadcast address 162.198.255.255
Od. Network addresses 2097150, Host addresses 256, Broadcast address 162.198.20.255
The correct answer is: Network addresses 2097152, Host addresses 254, Broadcast address 162.198.20.255
Question 37
Complete Mark 1.00 out of 1.00
What is the primary consideration in scenarios where UDP is preferred over TCP?
a. Connection establishment efficiency
b. Low latency
○ c. High reliability
O d. Error correction
The correct answer is: Low latency

Question 38
Complete
Mark 1.00 out of 1.00
Electronic mail uses which Application layer protocol?
○ a. HTTP
O b. FTP
○ c. SIP
■ d. SMTP
The correct answer is:
SMTP
Question 39
Complete
Mark 0.00 out of 1.00
Which of the following statements is not applicable for cable internet access?
a) It is a shared broadcast medium
b) It includes Hybrid Fiber Co-axials
c) Cable modem connects home PC to Ethernet port
d) Analog signal is converted to digital signal in DSLAM
a. a
○ b. c
O c. b
○ d. d
The correct answer is:
d
u e e e e e e e e e e e e e e e e e e e

Question 40 Complete Madd 100 and rf100
Mark 1.00 out of 1.00
Which of the following would be good reason to run NAT?
(i) You need to connect to the internet and your hosts do not have globally unique IP addresses.
(ii) You change to a new ISP that requires you to renumber your network.
(iii) You do not want any hosts connecting to the internet.
(iv) You require two intranet with duplicate addresses to merge.
a. 1, 2 and 4 only
○ b. All of these
All of these
C. 2 and 4 only
Od. 3 only
3 Offity
The correct answer is:
1, 2 and 4 only
Question 41
Complete
Mark 1.00 out of 1.00
Which of the following is a set of rules that governs the data communication in a computer network
^{a.} None of these
b. Protocols
o c. Activity standards
○ d. RFCs
The correct answer is: Protocols
FIOLOGIS

Question 42
Complete Mark 1.00 out of 1.00
What is the primary purpose of a virtual local area networks?
a. Simulating a network
b. Demonstrating the proper layout for network
c. To create a virtual private network
 d. Segmenting a network inside a switch or device
The correct answer is: Segmenting a network inside a switch or device
Segmenting a network inside a switch of device
Question 43
Complete Mark 1.00 out of 1.00
Walk 1.00 out of 1.00
What will be the propagation time when the distance between two points is 2400km ? Assuming the propagation speed to be $4 \times 10^8 \text{m/s}$ in cable
○ a. 1ms
O b. 2ms
○ c. 5ms
The correct answer is:
6ms

Question 44 Complete	
Mark 1.00 out of 1.00	
In selective repeat request window, the sender resends	
a. packets from starting	
○ b. All the packets	
C. packets which are not lost	

d. only those packets which are lost or corrupted
The correct answer is:
only those packets which are lost or corrupted
Question 45
Complete Mark 1.00 out of 1.00
IVIAIR 1.00 OUT OF 1.00
Routing inside a single administrative domain is called as routing.
○ a. Path Vector
○ b. Inter-domain
⊚ c. Intra-domain
○ d. None of these
The correct answer is:
Intra-domain
Question 46
Complete
Mark 1.00 out of 1.00
The size of an IP address in IPV6 is
○ a. 40bytes
○ b. 128 bytes
○ d. 60 bits
The correct answer is:
128 bits

Question 47
Complete
Mark 1.00 out of 1.00
Suppose the IP address of device 1 is 10.105.1.113 and device 2 is 10.105.1.91 and the subnet mask used is 255.255.255.192. Both the devices will be able to communicate with each other using
○ a. Router
○ b. Hub
C. None of these
d. Switch
The correct answer is: Switch
Question 48
Complete Mark 0.00 out of 1.00
Which are end system devices
a. web servers
○ b. All of these
© c. smartphones
d. mail servers
⊕ d. man servers
The correct answer is: All of these

o : 10
Question 49 Complete
Mark 1.00 out of 1.00
Consider the Go-back-N protocol with a sender's window size of '8'. Suppose at time 't' the next frame in the buffer (i.e. the next inorder frame) the receiver is expecting has a sequence No. 5. Assume that the medium does not reorder the messages. What is the possible set of sequence number inside the sender's window at time 't'. Assume the sender has already received acknowledgment for all the previously transmitted frames.
O a. [5, 13]
O b. [4, 12]
⊚ c. [5, 12]
○ d. None of these
The correct answer is:
[5, 12]
Question 50
Complete Mark 0.00 out of 1.00
Mark 0.00 Out of 1.00
What is the correct order of the operation of open shortest path first algorithm?
i. Establishing adjacencies and synchronization of database
ii. Hello packet iii. Propagation of link state information and building of routing tables
III. Propagation of link state information and building of routing tables
O a. iii-ii-i
O b. ii-i-iii
○ c. i-ii-iii
⊚ d. ii-iii-i
The correct answer is:
ii-i-iii

Question 51
Complete Mark 1.00 out of 1.00
What is the primary purpose of Open Shortest Path First?
 a. Link-state routing within an Autonomous Systems
O b. Interdomain routing
o c. lassful routing
O d. None of these
The correct answer is:
Link-state routing within an Autonomous Systems
F2
Question 52 Complete
Mark 1.00 out of 1.00
Which address identifies a process on a host?
 a. physical address
b. port address
○ c. specific address
O d. logical address
The correct answer is:
port address
Question 53
Complete
Mark 1.00 out of 1.00
The OSI model was developed TCP/IP model.
a. after
○ b. None of these
o c. prior to
o d. simultaneous to
The correct answer is: after

Question 54
Complete
Mark 0.00 out of 1.00
Which of the following statements about UDP is true?
a. It is connectionless and does not provide error recovery.
b. It establishes a connection before data transmission.
c. It is slower and heavier than TCP.
Od. It guarantees the delivery of all packets.
The correct answer is:
It is connectionless and does not provide error recovery.
Question 55
Complete
Mark 0.00 out of 1.00
If a class B network on the internet has a subnet mask of 255.255.248.0, what is the maximum number of hosts per subnet?
a. Network addresses 16384, Host addresses 65536, Broadcast address 162.255.255.255
a. Network addresses 10504, 110st addresses 05550, broadcast address 102.255.255.255
 b. Network addresses 16384, Host addresses 65534, Broadcast address 255.255.255.255
C. Network addresses 16384, Host addresses 65534, Broadcast address 162.255.255.255
Network dudicases 10504, 1105t dudicases 05554, broducast dudicas 10E.E55.E55.E55
○ d. Network addresses 65536, Host addresses 65534, Broadcast address 255.255.255
G. Inclinative additional additional additional additional addition 200.200.200.200.200.200.200.200.200.200
The correct answer is:

Network addresses 16384, Host addresses 65534, Broadcast address 162.255.255.255

Question 56
Complete
Mark 1.00 out of 1.00
Reverse Address Resolution protocol
a. maps MAC address to IP address
b. maps public address to private address
maps public address to private address
C. maps private address to public address
d. maps IP address to MAC address
The correct answer is:
maps IP address to MAC address
Question 57
Complete
Mark 1.00 out of 1.00
EUI-64 process is a method we can use to automatically configure IPV6 host addresses.
○ a. False
b. True
The correct answer is: True
Question 58
Complete
Mark 1.00 out of 1.00
What are the propagation time and the transmission time for a 2 Mbyte message (an image) if the transmission rate of the network is
1Mbps? Assume that the distance between the sender and the receiver is 4000 km and that light travels at 4×10^9 m/s.
a. 2msecs, 40msecs
○ b. 2msecs, 40secs
○ c. 1 msecs, 40msecs
■ d. 1 msecs, 16 secs
© G. 1 M3CG, 10 3CG
The correct answer is: 1 msecs, 16 secs
i maccaj no acca

Question 59
Complete Mark 0.00 page 551.00
Mark 0.00 out of 1.00
The IP network 192.168.50.0 is to be divided into 10 equal sized subnets. Which of the following subnet masks can be used for the above requirement?
a. 255.255.255.240
O b. 255.255.255
o c. 255.255.0.0
O d. 255.255.255.0
The correct answer is: 255.255.255.0
Question 60
Complete
Mark 1.00 out of 1.00
Which of the following protocols is the bit-oriented protocol?
○ a. HTTP
b. HDLC
○ c. SSL
d. All of the these
The correct answer is: HDLC
Question 61
Complete Mark 1.00 out of 1.00
The layer links network/user support layers by segmenting and rearranging the data. a. transport layer
b. application layer
○ c. network layer
O d. session Layer
The correct answer is: transport layer

Question 62
Complete Mark 1.00 out of 1.00
mark not out of not
Which is of the following statement is incorrect, if the transmission bandwidth of a shared broadcast media of 50 Mbps is shared by 500 users then,
 a. Using CDMA scheme, each of the users have an access to 100 Kbps of bandwidth
 b. Using TDMA scheme, each of the users have an access to 100 Kbps of bandwidth
C. Using CDMA scheme, each of the users have an access to 50 Mbps of bandwidth
 d. Using FDMA scheme, each of the users have an access to 100 Kbps of bandwidth
The correct answer is: Using CDMA scheme, each of the users have an access to 100 Kbps of bandwidth
Question 63
Complete Mark 1.00 out of 1.00
Bluetooth is a wireless technology for
○ a. WAN
O b. LAN
◎ c. PAN
○ d. MAN
The correct answer is: PAN

Question 64
Complete
Mark 1.00 out of 1.00
Which is not true for Packet switching?
a. Multiple users can use the same channel while transferring their packets.
b. A uniform/ dedicated path is followed throughout the session.
 c. The delivery of these packets becomes easy when complicated protocols are used.
d. Installation costs of packet switching are expensive.
United and the costs of packet switching are expensive.
The correct answer is:
A uniform/ dedicated path is followed throughout the session.
Question 65
Complete
Mark 1.00 out of 1.00
Walk 1.00 Out of 1.00
Consider the following statements:
1. In the 1-persistent CSMA access protocol, the node senses the channel, if idle it sends the data, otherwise it checks the medium
after a random amount of time (not continuously) and transmits when found idle.
2. In the non-persistent CSMA access protocol, the node senses the channel, if idle it sends the data, otherwise it continuously keeps on checking the medium for being idle and transmits unconditionally (with 1 probability) as soon as the channel gets idle.
of checking the medium for being the and transmits disconditionally (with 1 probability) as soon as the charmer gets idie.
a. Only 2 true
\cap h
Only 1 true
Resth 1 and 2 are false
c. Both 1 and 2 are false
Od. Both 1 and 2 are true
The correct answer is:
Both 1 and 2 are false

Question 66
Complete
Mark 0.00 out of 1.00
A 50 Kbps satellite link has a propagation delay of 500 ms. The transmitter employs the "Go Back 16 ARQ" scheme. Assuming that
each frame is 200 bytes long, what is the maximum data rate possible?
○ a. 2.48 Mbps
O b. 248 bps
c. None of these
O d. 2.48 Kbps
The correct answer is:
2.48 Kbps
Question 67
Complete
Mark 1.00 out of 1.00
Identify the correct order in which the following actions take place in an interaction between a web browser and a web server
(1) The web browser requests a web page using HTTP
(2) The web browser establishes a TCP connection with the web browser
(3) The web browser sends the requested web page using HTTP
(4) The web browser resolves the domain name using DNS
O a. 4,3,1,2
b. 4,2,1,3
○ c. 3,2,1,4
○ d. None of these
The correct answer is:
4,2,1,3

Question 68 Complete				
Mark 0.00 out of 1.00				
Which one of the following	uses UDP as the transport p	orotocol?		
a. HTTP				
○ b. SMTP				

○ c. DNS
○ d. Telnet
The correct answer is: DNS
Question 69
Complete
Mark 1.00 out of 1.00
Which of the following is incorrect about Network Address Translation?
a. NAT is a process in which one or more local IP address is translated into one or more Global IP address and vice versa.
b. Certain application will not function while NAT is enabled.
© C. Router will do NAT translation without configuration.
od. NAT results in switching path delays.
The correct answer is:
Router will do NAT translation without configuration.
Question 70
Complete
Mark 1.00 out of 1.00
What is the size of the window for host A if the value of receiver window (rwnd) is 5000 bytes and the value of congestion window (cwnd) is 5500 bytes?
a. None of these
○ c. 5500 bytes
○ d. 10500 bytes
The correct answer is:
5000 bytes

Question 71
Complete
Mark 1.00 out of 1.00
The number of bits in IPV4 address, IPV6 address, MAC address and Port address are
a. 32, 128, 64, 16
O b. 32, 128, 48, 32
o c. 128, 32, 48, 16
d. 32, 128, 48, 16
The correct answer is:
32, 128, 48, 16
Question 72
Complete
Mark 1.00 out of 1.00
Optical Network Terminator is connected to splitter using
a. hybrid fiber co-axial cable
b. Twisted pair cable
⊚ c. Optical cable
○ d. microwave link
The correct answer is:
Optical cable

Complete Mark 100 out of 1.00 The computation of the shortest path first in RIP is usually done by	Question 73
The computation of the shortest path first in RIP is usually done by	
 a. Vector algorithm b. Dijkstra's algorithm C. Bellman Ford algorithm d. Kruskal's algorithm The correct answer is: Bellman Ford algorithm Countries 74 Complete Mark 1.00 out of 1.00 Dynamic Host Configuration Protocol issues	Mark 1.00 out of 1.00
 a. Vector algorithm b. Dijkstra's algorithm C. Bellman Ford algorithm d. Kruskal's algorithm The correct answer is: Bellman Ford algorithm Question 74 Complete Mark 1.00 out of 1.00 Dynamic Host Configuration Protocol issues	
 b. Dijkstra's algorithm € C. Bellman Ford algorithm d. Kruskal's algorithm The correct answer is: Bellman Ford algorithm Couestion 74 Complete Mark 1,00 out of 1,00 Dynamic Host Configuration Protocol issues	The computation of the shortest path first in RIP is usually done by
© C. Bellman Ford algorithm Od. Kruskal's algorithm The correct answer is: Bellman Ford algorithm Cuestion 74 Complete Mark 1.00 out of 1.00 Dynamic Host Configuration Protocol issues	a. Vector algorithm
d. Kruskal's algorithm The correct answer is: Bellman Ford algorithm Question 74 Complete Mark 1.00 out of 1.00 Dynamic Host Configuration Protocol issues	O b. Dijkstra's algorithm
The correct answer is: Bellman Ford algorithm Question 74 Complete Mark 1.00 out of 1.00 Dynamic Host Configuration Protocol issues	© C. Bellman Ford algorithm
Question 74 Complete Mark 1.00 out of 1.00 Dynamic Host Configuration Protocol issues	○ d. Kruskal's algorithm
Complete Mark 1.00 out of 1.00 Dynamic Host Configuration Protocol issues to the client. a. MAC address b. IP address c. Port address d. None of these	
Dynamic Host Configuration Protocol issues to the client. a. MAC address b. IP address c. Port address d. None of these	
Dynamic Host Configuration Protocol issues to the client. a. MAC address b. IP address c. Port address d. None of these	
 a. MAC address b. IP address c. Port address d. None of these The correct answer is:	INIAIN 1.00 OUR OF 1.00
b. IP addressc. Port addressd. None of these The correct answer is:	Dynamic Host Configuration Protocol issues to the client.
c. Port addressd. None of these The correct answer is:	a. MAC address
d. None of theseThe correct answer is:	b. IP address
The correct answer is:	○ c. Port address
	○ d. None of these

Question 75		
Complete Mark 1.00 out of 1.00		
Transmission rate is decided by		
a. physical layer		
○ b. transport layer		
c. network layer		
Od. data link layer		
ar asia isyo.		
The correct answer is: physical layer		
physical layer		
76		
Question 76 Complete		
Mark 1.00 out of 1.00		

- a. **255.240.0.0**
- b. None of these
- © c. **223.0.0.0**
- od. **255.255.255.252**

The correct answer is:

223.0.0.0

Question 77				
Complete				
Mark 1.00 out of 1.00				
In computer networks nod	es are			
 a. the computer that r 	outes the data			
b. All of these				
c. the computer that t	erminates the data			
od. the computer that o	originates/generates the	e data		
The correct answer is:				
All of these				
Question 78				
Complete				
Mark 1.00 out of 1.00				
In the even parity, find the	ne parity bit of data 10	01001001.		
a. 0				
O b. X				
C. None of these				
O d. 1				
The correct answer is:				

Question 79
Complete
Mark 0.00 out of 1.00
Error control is responsibility of which OSI layers
a. Network and Transport layer
○ b. All of these
C. Data link and Transport layer
Data link and Transport layer
od. Physical and Data link layer
The correct answer is: Data link and Transport layer
Data lilik aliu Traisport layei
Question 80
Complete Mark 1.00 out of 1.00
Wark 1.00 out of 1.00
Which sub-layer of the data link layer performs data link functions that depend upon the type of medium?
a. Media access control sub-layer
 b. Logical link control sub-layer
o. network interface control sub-layer
○ d. error control sub-layer
The correct answer is:
Media access control sub-layer

Question 81			
Complete			
Mark 1.00 out of 1.00			
Define the type of this Ethernet frame	destination address FF:FF:	FF:FF:FF:FF	
a. Multicast			
b. Broadcast			
o c. None of these			
O d. Unicast			
The correct answer is:			
Broadcast			
Question 82 Complete			
Mark 1.00 out of 1.00			
NATIONAL AND A SOLUTION ASSOCIATION OF THE PROPERTY OF THE PRO	in a in make a manaka di ba ID	V(C)	
Which of the following type of address	sing is not supported by iP	VO:	
a. None of these			
b. Broadcast			
o c. Unicast			
Od. Multicast			
The correct answer is: Broadcast			
Dioducast			

Question 83
Complete
Mark 1.00 out of 1.00
The metric used byprotocol is the hop count.
a. Border Gateway Protocol
○ b. Open Shortest Path First
○ c. Enhanced Interior Gateway Routing Protocol
C. Ellianced interior dateway routing Protocol
© d. Routing Information Protocol
The correct answer is:
Routing Information Protocol
Question 84
Question 04 Complete
Mark 1.00 out of 1.00
What kind of transmission medium is most appropriate to carry data in a computer network that is exposed to electrical interference?
That will be taken below to the second of th
a. Un-shielded twisted pair
○ b. Microwave link
Microwave link
WILCTOWAVE IITIK
c. Optical fiber
c. Optical fiber
c. Optical fiber
c. Optical fiberd. Coaxial cable
c. Optical fiberd. Coaxial cable The correct answer is:
c. Optical fiberd. Coaxial cable The correct answer is:

Question 85
Complete Mark 1.00 out of 1.00
Which of the following protocol is not used to resolve one form of addressing to another one?
a. Dynamic Host Configuration Protocol
O b. Domain Name System
○ c. Reverse Address Resolution Protocol
○ d. Address Resolution Protocol
The correct answer is:
Dynamic Host Configuration Protocol
Question 86
Complete
Mark 1.00 out of 1.00
Find out the valid IPV4 address from the following
O a 221 34 7 8 20

o b. 112.56.075.78

oc. 75.45.301.14

od. 224.200.89.90

The correct answer is: 224.200.89.90

Complete
Mark 1.00 out of 1.00
Two popular routing protocol algorithms are distance vector (DVR) ad link state routing (LSR). Which of the following are not true?
^{a.} In LSR, only the immediate neighbour routing vector entries are flooded in the network
b. DVR requires lesser number of network messages than LSR
c. In LSR, the entire routing table is flooded in the network
 d. Count-to-infinity is a problem only with DVR and not with LSR
The correct answer is:
In LSR, the entire routing table is flooded in the network
Question 88
Question 00
Complete
Complete
Complete Mark 1.00 out of 1.00
Complete Mark 1.00 out of 1.00 Which one of the following is not a function of network layer?
Complete Mark 1.00 out of 1.00 Which one of the following is not a function of network layer?
Complete Mark 1.00 out of 1.00 Which one of the following is not a function of network layer? a. inter-networking b. congestion control

Question 89
Complete
Mark 1.00 out of 1.00
Which multiple access techniques is used by IEEE 802.11 standards for wireless LANs?
○ b. CSMA/CD
○ c. ALOHA
○ d. CSMA
The correct answer is:
CSMA/CA
Question 90
Complete
Mark 0.00 out of 1.00
What does a network switch do when it receives a frame with a destination MAC address that is not in its MAC address table?
 a. Forwards the frame only to the source port
○ b. Floods the frame to all ports
c. Initiates MAC address aging
○ d. Drops the frame
The correct answer is:
Floods the frame to all ports
Question 91
Complete
Mark 1.00 out of 1.00
Inrouting, the routing tables are updated periodically and the routing tables are not manually updated by the network administrator.
a. Dynamic routing
○ b. Static routing
○ c. None of these.
d. Both static and dynamic routing
The correct answer is:

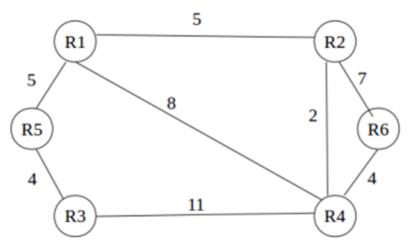
Dynamic routing

Question **92**

Complete

Mark 0.00 out of 1.00

Explain the distance vector routing algorithm by running it for the following graph. Calculate the shortest distance from source R1 to destination R6.



- a. 10
- O b. 11
- oc. None of these
- d. 12

The correct answer is:

11

Question 93
Complete
Mark 1.00 out of 1.00
Which of the following are disadvantages of Network Address Translation?
(i) Translation introduces switching path delays.
(ii) Conserve legally registered addresses.
(iii) Cause loss of end-to-end IP traceability
(iv) Increase flexibility when connecting to the internet
(v) Certain application will not function with Network Address Translation enabled.
(vi) Reduce address overlap occurrence
a. 1,3 and 5 only
O h
^O b. 1 and 5 only
C. 3 and 5 only
Od. 2,4 and 5 only
The correct answer is: 1,3 and 5 only
1,5 and 5 Giny
Question 94
Complete Mark 1.00 out of 1.00
Mark 1.00 out of 1.00
Which of the following is considered as the biggest advantage of preferring User Datagram protocol?
○ a. Reliable
b. Low overheads
○ c. More overheads
d. Connection oriented
The correct answer is:
Low overheads

Question 95	
Complete	
Mark 0.00 out of 1.00	
What is the type of the destination	address of these Ethernet address 47:30:10:21:10:1A
a. Unicast	
○ b. Multicast	
c. Not a valid address	
O d. Broadcast	
The correct answer is:	
Multicast	
Question 96	
Complete	
Mark 1.00 out of 1.00	
router. Which of the following IF	e IP address assigned to one port is 201.14.2.1/23. LAN1 is attached to this port of the P addresses are valid on this LAN1 interface,
11: 201.14.1.100	
I2: 201.14.1.3 I3: 201.14.2.2	
13: 201.14.2.2 14: 201.14.3.0	
201111313	
O = Only 12 and 12	
a. Only I2 and I3	
b. Only I3 and I4	
O c. Only I1 and I3	
Od. Only I1 and I2	
The correct answer is:	

Only I3 and I4

Question 97
Complete
Mark 1.00 out of 1.00
Error detection and correction are offered by both
a. Data link layer and Network Layer
b. Network Layer and Transport Layer
© C. Data link layer and Transport Layer
O d. Physical Layer and Data link Layer
The correct answer is: Data link layer and Transport Layer
Question 98
Complete
Mark 1.00 out of 1.00
Which is not true for Packet switching?
a. The delivery of these packets becomes easy when complicated protocols are used.
b. A dedicated path is followed throughout the session.
C. Installation costs of packet switching are expensive.
 d. Multiple users can use the same channel while transferring their packets.
The correct answer is: A dedicated path is followed throughout the session.

Question 99
Complete
Mark 0.00 out of 1.00
Which of the following statement(s) is /are true about TCP?
(i) TCP is connection oriented protocol
(ii) TCP uses a three way handshake to establish a connection
(iii) TCP receives data from application as a single stream
() a
a. (i) only
b. (i) and (ii) only
⊚ c. (i) and (iii) only
od. (i), (ii) and (iii)
The correct answer is:
(i), (ii) and (iii)
Question 100
Complete
Mark 1.00 out of 1.00
When might UDP be a suitable choice for data transmission?
a. In scenarios where occasional data loss is acceptable.
b. When guaranteed delivery is critical.
c. In applications requiring constant connection establishment.
O d. For long-distance communication.
The correct answer is:
In scenarios where occasional data loss is acceptable.
→ Announcements
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