Computer Network Solved MCQs - Part 2

MCQs

Multiple Choice Questions

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Which of the following does not allow multiple users or devices to share one communications line?

- Doubleplexer
- Multipplexer
- Concentrator
- Controller

Which of the following best illustrates the default subnet mask for a class A,B, and C Network

- 0.0.0.0, 0.0.0.1, 0.0.1.1
- 255.255.255.0, 255.255.0.0, 255.0.0.0
- 255.0.0.0, 255.255.0.0, 255.255.255.0
- 255.255.0.0, 255.255.255.0, 255.255.255.255

MTU is specified by

- IP Datagram size
- Hardware technology

- TCP Segment size
- None of the above

In which congestion control policy the router can discard less sensitive packets when congestion is likely to happen?

- Discarding policy
- Acknowledgement policy
- Window policy
- Retransmission policy

Which of the following TCP/IP protocol allows an application program on one machine to send a datagram to an application program on another machine?

- UDP
- VMTP
- X.25
- SMTP

In an IPv4 datagram, the M bit is 0, the value of HLEN is 10, the value of total length is 400 and the fragment offset value is 300. The position of the datagram, the sequence numbers of the first and the last bytes of the payload, respectively are

- Last fragment, 2400 and 2789
- First fragment, 2400 and 2759

- Last fragment, 2400 and 2759
- Middle fragment, 300 and 689

The value of N(S) is related to the value of P(S) as

- N(S)-P(S)=number of outstanding packets
- N(S)-P(S)=number of outstanding frames
- N(S)-P(S)=number of active logical channels in the link
- They are not related

Which of following divides the high speeds signals into frequency bands?

- T-switch
- Time division multiplexer
- Frequency division multiplexer
- Modem

Using data p=3, q=11, n=pq, d=7 in RSA algorithm find the cipher text of the given plain text SUZANNE

- BUTAEEZ
- SUZANNE
- XYZABCD
- ABCDXYZ

Which channel is deployed by the radio station for transmission?

- Half duplex
- Full duplex
- Simplex channel
- None of the above

Match the following with link quality measurement and handoff initiation :
(a) Networked-Controlled Handoff(NCHO) (i) MS connect to BS
(b) Mobile-Assisted Handoff(MAHO) (ii) Process via channel the target BS
(c) Forward Handoff (iii) First Generation Analog Cellular System
(d) Hard Handoff (iv) Second Generation Digital Cellular System

- (iii) (iv) (ii) (i)
- (ii) (iii) (i) (iv)
- (ii) (i) (iv) (iii)
- (iv) (iii) (i) (ii)

To prevent signal alternation ,what is the maximum number of repeaters that can be placed on one 10 Base 5 or 10 Base 2 network?

- Four
- Five
- Three

- Any number

Who strips the data frame from the token ring network?

- Destination station
- The first station which wants to transmit next
- The sending station
- The station next to the destination station

ATM is an example of

- Ring topology
- Star topology
- Bus topology
- None of the above

FDM devices can operate

- On multipoint analog data channels
- More efficiently than dumb TDMs
- More efficiently than smart TDMs
- Like modern sharing devices

.....uses two carriers one in phase and the other quadrature?

- ASK
- PSK
- FSK
- QAM

The research and development department at your office has been experimenting with different technologies to help improve the performance of the network. One group has been examining the use of a broadband network versus a based band network. Select the correct statement about broadband and baseband.

- Broadband networks carry several channels on a single cable, whereas in a baseband network several cables carry one channel
- Baseband networks carry a single channel on a single cable, whereas broadband networks carry several channels on a single cable
- Baseband refers to local area networks, and broadband refers to wide area networks.
- Baseband operates at a standard bit rate, whereas broadband may operate at different rates as needed

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Error detection at a data link level is achieved by

- Bit stuffing
- Cyclic redundancy codes
- Hamming codes
- Equalization

Which of the following TCP/IP protocol is used for transferring electronic mail messages from one machine to another?

- POP
- SMTP
- FTP
- HTTP

Which of the following device is used to connect two systems, especially if the systems use different protocols?

- Hub
- Bridge
- Gateway
- Repeater

What is the maximum window size in sliding window protocol used in a computer network ?

- 4
- 8
- 15
- 16

You have a class A network address 10.0.0.0 with 40 subnets, but are required to add 60 new subnets very soon. You would like to still allow for the largest possible number of host IDs per subnet. Which subnet mask should you assign?

- 255.254.0.0
- 255.240.0.0
- 255.248.0.0
- 255.252.0.0

Frames from one LAN can be transmitted to another LAN via the device

- Router
- Bridge
- Repeater
- Modem

The receiver equalizer reduces delay distortions using

- Tapped Delay lines
- Gearshift
- Desrambler
- Difference enging

The device which connects dissimilar LANs of different topologies using different sets

of communication protocols so that information can flow from one to another is called

- Router
- Bridge
- Gateway
- Switch

The _____ houses the switches in token ring

- Transceiver
- Nine-pin connector
- MAU
- NIC

IEEE 802.3 popularly called

- Switch Ethernet
- Ethernet
- Wifi
- Wireless Network

In IPv4 header, the _____ field is needed to allow the destination host to determine which datagram a newly arrived fragments belongs to.

- identification

- fragment offset
- time to live
- header checksum

In token ring ,the tokens can be removed by

- The nearest down stream neighbour
- The receiving station
- The ring monitor
- The nearest upstream neighbor

Which of the following field of the TCP header tells how many bytes may be sent starting at the byte acknowledged ?

- TCP header length
- Window size
- Acknowledgement number
- Urgent pointer

802.11i standard included an encryption scheme is known as

- Wireless Security
- WEP (Wired Equivalent Privacy)
- WiFi Protected Access

- WiFi Protected Protocol

Error rate is

- An error-detecting code based on a summation operation performed on the bits to be checked.
- A check bit appended to an array of binary digits to make the sum of all the binary digits.
- a code in which each expression conforms to Specific rules of construction, so that if certain errors occur in an expression, the resulting expression will not conform to the rules of construction and thus the presence of the errors is detected
- The ratio of the number of data units in error to the total number of data units

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When you ping the loopback address, a packet is sent where?

- Down through the layers of the IP architecture and then up the layers again
- Across the wire
- On the network
- Through the loopback dongle

An error-detecting code inserted as a field in a block of data to be transmitted is known as

- Frame check sequence
- Error detecting code

- Checksum
- Flow control

ICMP (Internet Control Message Protocol) is

- A TCP/IP protocol used to dynamically bind a high level IP Address to a low-level physical hardware address
- a TCP/IP high level protocol for transferring files from one machine to anothe
- a protocol used to monitor computers
- a protocol that handles error and control messages

Maximum speed of LAN(Local Area Network)

- Up to 5 Gbps
- Up to 3 Gbps
- Up to 10 Gbps
- Up to 15 Gbps

In classful addressing, the IP address 190.255.254.254 belongs to

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

Radio signals generally propagate according to the following mechanisms

- Modulation, Amplification, Scattering
- Reflection, Diffraction, Scattering
- Amplification, Diffraction, Modulation
- Reflection, Amplification, Diffraction

The unlicensed National Information Infrastructure band operates at the _____ frequency

- 2.4 GHz
- 5 GHz
- 33 MHz
- 5 MHz

The addressing especially used by Transport Layer is

- Station address
- Network address
- Application port address
- Dialog address

802.11g standard running speed is

- Up to 11 Mbps
- Up to 54 Mbps
- Up to 450 Mbps
- Up to 2 Mbps

In ATM which facility support multimedia applications that require minimal delays?

- Constant bit rate
- Unspecified bit rate
- Avail bit rate
- Realtime bit rate

GSM/CDMA systems

- are limited to very low speed data
- are predominantly used for voice
- are predominantly used for voice
- all of the above

The count-to-infinity problem is associated with

- Flooding algorithm
- Hierarchical routing algorithm

- Distance vector routing algorithm
- Link state routing algorithm

For the transmission of the signal, Bluetooth wireless technology uses

- time division multiplexing
- frequency division multiplexing
- time division duplex
- frequency division duplex

Brouter

- Is a type of bridge
- Works at all the layers of OSI model
- Is able to bridge those protocols that are not routable
- None of the above

Which channel of transmission is used in a telephone call?

- Simplex
- Half duplex
- Full duplex
- None of the above

X.25 is _____ Network

- Connection Oriented Network
- Connection Less Network
- Either Connection Oriented or Connection Less
- Neither Connection Oriented nor Connection Less

IEEE 802.16 standard for

- Wireless LAN (WiFi)
- Broadband wireless
- Personal Area Network
- Wireless Regional Area Network

The single stage network is also called

- one sided network
- two sided network
- recirculating network
- pipeline network