

PUT-PAPER-COMPUTER NETWORKS

(RCS-601)

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*Required

Questions :

Attempt All the Questions.

Which one of the following allows a user at one site to establish a connection to another site and then pass keystrokes from local host to remote host? *

2 points

- ☐ HTTP
- ☐ FTP
- ☒ telnet
- ☐ none of the mentioned

How many bits are allocated for network id (NID) and host id(HID) in the IP address 25.193.155.233? *

2 points

- ☒ 24 bit for NID, 8 bits for HID
- ☐ 8 bit for NID, 24 bits for HID
- ☐ 16 bit for NID, 16 bits for HID
- ☐ none



Transmission control protocol _____ *

2 points

- ☐ is a connection-oriented protocol
- ☐ uses a three way handshake to establish a connection
- ☐ receives data from application as a single stream
- ☒ all of the mentioned

If a frame is 110101011 and generator is $X^4 + X + 1$ what would be the transmitted frame. *

2 points

- ☐ 100101101101111
- ☒ 110101101100111
- ☐ 110101101101111
- ☐ none of the above

The physical layer concerns with: *

2 points

- ☐ process to process delivery
- ☒ bit-by-bit delivery
- ☐ application to application delivery
- ☐ none of the mentioned



Automatic repeat request error management mechanism is provided by: * 2 points

- ☐ network interface control sublayer
- ☐ media access control sublayer
- ☒ logical link control sublayer
- ☐ none of the mentioned

Bluetooth is an example of: *

2 points

- ☐ local area network
- ☐ virtual private network
- ☒ personal area network
- ☐ none of the mentioned

Which one of the following protocol delivers/stores mail to receiver server? *

2 points

- ☒ simple mail transfer protocol
- ☐ post office protocol
- ☐ internet mail access protocol
- ☐ hypertext transfer protocol



The layer responsible for end to end delivery of the entire message *

2 points

- ☐ Network layer
- ☐ Session layer
- ☒ Transport layer
- ☐ Data link layer

Communication channel is shared by all the machines on the network in: *

2 points

- ☐ unicast network
- ☒ broadcast network
- ☐ multicast network
- ☐ none of the mentioned

When displaying a web page, the application layer uses the: *

2 points

- ☒ HTTP protocol
- ☐ FTP protocol
- ☐ SMTP protocol
- ☐ none of the mentioned



Header of a frame generally contains: *

2 points

- ☐ synchronization bytes
- ☐ addresses
- ☐ frame identifier
- ☒ all of the mentioned

UDP in the INTERNET protocol suite is related to *

2 points

- ☐ Layer-4
- ☐ Layer-3
- ☒ Layer-2
- ☐ Layer-1

A pure ALOHA Network transmits 200 bit frames using a shared channel with 200 Kbps bandwidth. If the system (all stations put together) produces 500 frames per second, then the throughput of the system is _____. *

2 points

- ☐ 0.384
- ☒ 0.184
- ☐ 0.286
- ☐ 0.586



In computer network nodes are: *

2 points

- ☐ the computer that originates the data
- ☐ the computer that routes the data
- ☐ the computer that terminates the data
- ☒ all of the mentioned

Which DNS client maps an address to a name or a name to an address especially when required by a host? *

2 points

- ☒ Resolver
- ☐ Mapper
- ☐ Primary Server
- ☐ Secondary Server

A receiver received the following Hamming code 0011100101101 with odd parity. Find the error in the received code and give the corrected data. *

2 points

- ☐ 0011110101101
- ☐ 0011101101101
- ☒ 0010100101101
- ☐ 0011100001101



Transport layer protocols deals with _____ *

2 points

- ☐ application to application communication
- ☒ process to process communication
- ☐ node to node communication
- ☐ man to man communication

Which network component/s is/are involved in the Presentation layer of an OSI model? *

2 points

- ☐ Gateway
- ☐ Multiplexer & Oscilloscope
- ☐ Amplifier & Hub
- ☒ All of the above

The ASCII encoding of binary data is called: *

2 points

- ☒ base 64 encoding
- ☐ base 32 encoding
- ☐ base 16 encoding
- ☐ base 8 encoding



Match the classes of IP addresses with their functional applications-- A. 2 points

Class A -----1) Multicast services B. Class B -----
2) Reserved for future C. Class D ----- 3) Large organizations
D. Class E -----4) Midsize Organizations *

- ☐ A- 4, B- 3, C- 2, D- 1
- ☐ A- 2, B- 4, C- 1, D- 3
- ☒ A- 3, B- 4, C- 1, D- 2
- ☐ A- 1, B- 2, C- 3, D- 4

Which one of the following extends a private network across public networks? * 2 points

- ☒ virtual private network
- ☐ enterprise private network
- ☐ storage area network
- ☐ local area network

Which of the functionalities does presentation layer include? * 2 points

- ☐ Data compression
- ☐ Data description
- ☐ Data encryption
- ☒ All of the above



Which one of the following is not a function of network layer? *

2 points

- ☐ routing
- ☐ inter-networking
- ☐ congestion control
- ☒ none of the mentioned

The 4 byte IP address consists of: *

2 points

- ☐ network address
- ☐ host address
- ☒ both network address and host address
- ☐ none of the mentioned

At transport layer, TCP/IP defines *

2 points

- ☐ Stream Control Transmission Protocol
- ☐ User Datagram Protocol
- ☐ Transmission Control Protocol
- ☒ All of the above



Encryption and decryption are functions of *

2 points

- ☐ Transport layer
- ☐ Session layer
- ☒ Presentation layer
- ☐ None of the above

Which of the following is/are the important applications of application layer? *

2 points

- ☐ Electronic mail
- ☐ World Wide Web
- ☐ USENET
- ☒ All of the above

What is the main function in which Presentation layer deals with? *

2 points

- ☐ Issues of strings representation
- ☐ Functionality of segments
- ☒ Delivering data
- ☐ None of the above



Buffer overrun can be reduced by using what? *

2 points

- ☐ Traffic control
- ☐ Flow control
- ☐ Byte orientation
- ☒ Data integrity

The technique of temporarily delaying outgoing outgoing acknowledgements so that they can be hooked onto the next outgoing data frame is called: *

2 points

- ☐ fletcher's checksum
- ☐ cyclic redundancy check
- ☒ piggybacking
- ☐ none of the mentioned

A set of rules that governs data communication: *

2 points

- ☐ Standards
- ☒ Protocols
- ☐ RFCs
- ☐ None of the mentioned



Which transmission media has the highest transmission speed in a network? *

2 points

- ☐ twisted pair cable
- ☐ electrical cable
- ☒ optical fiber
- ☐ coaxial cable

User datagram protocol is called connectionless because *

2 points

- ☒ all UDP packets are treated independently by transport layer
- ☐ it sends data as a stream of related packets
- ☐ it is received in the same order as sent order
- ☐ none of the mentioned

Which protocol layer uses the protocols are WWW, HTTP, FTP, SMTP, email, etc ? *

2 points

- ☐ Application Layer
- ☐ Transport Layer
- ☒ Internet Layer
- ☐ Hardware Layer



In a class B, network on the internet has a subnet mask of 255.255.240.0. 2 points
What is the maximum number of hosts per subnet? *

- ☒ 4096
- ☐ 4094
- ☐ 4098
- ☐ 4092

Select the incorrect one: types of ARQ systems are- *

2 points

- ☐ Stop-and-wait ARQ
- ☐ Go back n ARQ
- ☐ Go forward n ARQ
- ☒ Selective repeat ARQ

The physical layer translates logical communication requests from the _____ into hardware specific operations. * 2 points

- ☐ transport layer
- ☐ data link layer
- ☒ application layer
- ☐ network layer



Which one of the following task is not done by data link layer? *

2 points

- ☐ framing
- ☐ error control
- ☐ flow control
- ☒ channel coding

Select the components of a Computer Network. *

2 points

- ☐ Computers
- ☐ Cables
- ☐ NIC(Network Interface Card)
- ☒ All of the above

The transmission of digital signal at the original frequency without modulation is called *

2 points

- ☒ baseband signaling
- ☐ broadband signaling
- ☐ digital signaling
- ☐ none of these



What will be the codeword for the data 1101 in even parity, by using Hamming code. *

2 points

- ☐ 1100101
- ☐ 1110101
- ☒ 1100100
- ☐ 1100111

The first Network: *

2 points

- ☐ NSFNET
- ☐ CNET
- ☐ ASAPNET
- ☒ ARPANET

ICMP is primarily used for: *

2 points

- ☒ error and diagnostic functions
- ☐ addressing
- ☐ forwarding
- ☐ none of the mentioned



Wireless transmission can be done via: *

2 points

- ☐ radio waves
- ☐ microwaves
- ☐ infrared
- ☒ all of the mentioned

A _____ is a device that forwards packets between networks by processing the routing information included in the packet. *

2 points

- ☐ firewall
- ☒ router
- ☐ bridge
- ☐ all of the mentioned

TCP and UDP are called _____ *

2 points

- ☐ Application protocols
- ☐ Session protocols
- ☒ Transport protocols
- ☐ Network protocols



Transmission media are usually categorized as *

2 points

- ☐ Determinate and indeterminate
- ☒ Guided or unguided
- ☐ Fixed or unfixed
- ☐ None of the above

Which functionality of the network layer deals with the necessity of a three-way handshake usually before the transmission of data from sender to receiver? *

2 points

- ☐ Path determination
- ☐ Forwarding
- ☐ Call Set-up
- ☒ All of the above

A single channel is shared by multiple signals by: *

2 points

- ☒ multiplexing
- ☐ digital modulation
- ☐ analog modulation
- ☐ none of the mentioned

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