

CS601-Data Communication

(Solved MCQ's)
LECTURE FROM

(23 to 45)

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ALL answers are verified if found any mistake then Correct ACCORDINGLY

$\mathbf{\Omega}$		TAT	1
Ou	estion	No:	1

Ethernet Address is of ---

Question No: 2

In Pure ALOHA, the vulnerable time is -----the frame transmission time.

- > Same as
- Two times
- > Three times
- > Four times

Question No: 3

was used as a medium in 10 Base-T

- Thick coaxial Cable
- Think coaxial Cable
- Twisted Pair Cable
- Two Mode For Cable

Ouestion No: 4

When data are transmitted from device A to device B, the header from A's layer 4 is read by B's layer.

- physical
- > transport

applicationnone of the given

Ouestion No: 5

_encoding, we use three levels: positive, zero, and negative.

- > polar
- > nonpolar
- > mmultilevel
- **bipolar**

Question No: 6

A periodic signal completes one cycle in 0.001 s. What is the frequency?

- ➤ 1 Hz
- ➤ 100 Hz
- 1 KHz
- 1 MHz

L-JUNAID TECH INSTITUT **Question No: 7** There are basic modes for the propagation of light in fiber-optic cables. 3 **Ouestion No: 8** A parabolic dish antenna is a(n) Omnidirectional Bidirectional ➤ Horn Unidirectional **Question No: 9** Zero crossing bandwidth is also called as equivalent noise bandwidth. True False **Ouestion No: 10** During the transmission, transmitting device produces a high frequency signal which acts as a basis for the transmission. This base signal is called___ ► Analog signal Digital signal Not Confirm ➤ Modulated signal Carrier signal **Question No 11:** There are____ types of serial transmission: **Question No 12:** Synchronous transmission have_ > a start bit > a stop bit gaps between bytes > none of the given Question No 13

Using _____encoding scheme in digital transmission, we represent 0 by zero voltage level and represent 1 by any positive voltage level.

- > Polar
- > AMI
- Bipolar
- Unipolar

Question No 14

is the formula for finding number of bits sent per level. Log L ➤ Log2 ➤ Log2*2 ► Log2 L **Question No 15** Which of the following is an example of ITU-T modem standards:? T-series X-series П N-series П V-series **Question No 16** The maximum data rate in the uploading direction is still 26.6 Kbps □ 33.6 Kbps 36.6 Kbps 46.6 Kbps Question No 16 each station is forced to send a frame only at beginning of time slot In Pure ALOHA П Slotted ALOHA Fragmented ALOHA None of the given **Question 17** each station sends a frame whenever it has a frame to send In Pure ALOHA Slotted ALOHA Fragmented ALOHA None of the given **Ouestion No 18** The data rate of a T-1 line is 1.544 Gbps 2.544 Mbps 1.544 Kbps 1.544 Mbps **Ouestion 19** Circuit switched networks have efficiency but delay compared to the packet switched networks. high, minimal

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➤ high, high
low, minimal
Question No 20
Category 5 UTP cable is used for data transmission of upto
> 100 Mbps
> 200 Mbps
> 250 Mbps
> 400 Mbps
Question No 21
All of a smaller Ethan and a smaller and a smaller and
All of popular Fiber optic connectors aresnaped. > Conical > Barrel > Circular > Rectangular
> Barrel
Circular
Rectangular
Question No 22
SONET stands for
synchronous optical network
synchronous operational network
> stream optical network
shell operational network
Question No 23
Fast Ethernet has a data rate ofMbps.
> 10 > 100
> 1000 > 1000
> 10,000
Question No 24
The VLF and LF bands usepropagation for communications.
Ground
 Sky Line of sight Space
> Space
Question No 25
In Bit-oriented framing,bit pattern is used as a flag to define beginning and end
of a frame.
> (11111111) ₂
> (10000001) ₂
> Single
> (01111110) ₂
Question No 26
Traditionally,protocols have been defined for the data-link layer to deal with flow
and error control.
o Two
o Three

- o Five
- Four

Question No 27

Multiplexing is the set of techniques that allows simultaneous TX of multiple signals across ______data link

- > Single
- ➤ Multi
- > Single and Multi
- > none of the given

Question N0 28

Need for Addressing makes Asynchronous TDM inefficient for bit or byte_____

- > Interleaving
- > Addition
- > Substraction
- None of the given

Question No 29

__takes data from one high speed line and breaks it into portions.

- ► Multiplexing
- ► Inverse multiplexing
- ► Inverse subtraction
- ► Inverse addition

Question No 30

For Carrier Sense Multiple Access/Collision Detection (CSMA/CD) we need a restriction on the

- Collision Size
- Signal Size
- > Frame Size
- > Station Size

Question No 31:

In Y-MODEM Multiple files can be sent simultaneously

- True
- ► False

Question No 32

At the data-link layer, _____protocol is designed to handle both flow and error control,

but communication is one frame at a time.

- > Simple
- ➤ Go-Back-N
- ➤ Selective-Repeat
- > Stop-and-Wait

Question No 33

L-JUNAID TECH INSTITUTE The PPP protocol uses , which is responsible for establishing, maintaining, configuring, and terminating links. ➤ Internet Protocol Control Protocol (IPCP) ➤ Challenge Handshake Authentication Protocol (CHAP) ➤ Network Control Protocols (NCPs) **Link Control Protocol (LCP)** Question No 34 Aloha, CSMA/CD and CSMA/CA are part of Controlled Access protocol Channelization protocol Mutual access protocol Random Access protocol Question No 35 Which of the following is an example of ITU-T modem standards: ➤ T-series > X-series N-series V-series Question No 36 The maximum data rate in the uploading direction is still > 26.6 Kbps > 33.6 Kbps > 36.6 Kbps > 46.6 Kbps Question No 37 Category 5 UTP cable is used for data transmission of upto > 100 Mbps > 200 Mbps > 250 Mbps ➤ 400 Mbps Ouestion No 38 ALOHA the earliest random access method was developed in early_ 1950s 1960s 1980s 1970s

Question No 39

In block coding, we divide our message into blocks, each of ____bits; and add ____redundant bits to each block to make the codewords of ____bit length.

m, r, c

L-JUNAID TECH INSTITUTE n, k, r n, r, k k, r, n **Ouestion No 40** .are_____ All of popular Fiber optic connectors are _____ shaped. Conical **Barrel** > Circular > Rectangular **Question No 41** MAC stand for ➤ Media Access Controller ➤ Main Access Control Mandatory Access Control Media Access Control Question No 42 Which one of the following is a Random-Access protocol > CDMA/CA CSMA/CD Both are correct ALOHA OR > CDMA/CD > TDMA **Ouestion No 43** The VLF and LF bands use propagation for communications. Ground > Sky Line of sight > Space Question No 44 Multiplexing is the set of techniques that allows simultaneous TX of multiple signals across data link > Single ➤ Multi Single and Multinone of the given > none of the given Need for Addressing makes Asynchronous TDM inefficient for bit or byte______ Interleaving **Addition** Subtraction

None of the given

Question No 46

CDMA stands for

- ➤ Carrier Data Multiple Access
- Code Division Multiple Access
- ➤ Code Data Multiple Access
- Carrier Division Multiple Access

Question No 47

AL-JUNAID TECH INSTITUTE In Ethernet, the source address field in the MAC frame is the _____ address.

Sender's logical
Previous station's physical
Next destination's physical
> Sender's service port
Question No 48
takes data from one high speed line and breaks it into portions.
> Multiplexing
> Inverse multiplexing
➤ Inverse subtraction
Inverse addition
Question No 49
A traditional telephone line has a bandwidth of
▶ <mark>2000Hz</mark>
► 4000 Hz
► 2000 MHz
► 4000 MHz
Question No 50
To detect five errors, the Hamming distance between each pair of codewords should be
at least
• 4
5
• <mark>11</mark>
• 6
Question No 51
For FEC using XOR operation, we divide a packet into N chunks, and need to send
chunks to the receiver side.
0 N
o 2N
\circ (N+1)/2
o <mark>N+1</mark>
Question No 52
If the ASCII character H is sent and the character I is received, what type of error is this?
Single-bit
Multiple-bit
> Burst
Single-bit Multiple-bit Burst Recoverable Question No 53
Question No 53
At the CRC generator,added to the data unit after the division process
> 0s are
> 1s are
The polynomial
The CRC remainder is
Question No 54
Error control in the data link layer is based on

automatic repeat request automatic repeat acknowledgment automatic send acknowledgment Question No 55 In a technique called, compounding High-and-Low Resolution Packets, the lowresolution section in the first packet is ► CRC **Not Sure** ► Parity code ► Empty Question No 56 In line discipline the initiator first transmits a frame called an ___ > Enquiry Acknowledgment NAK > Reques Question No 57 Primary device uses_ to receive transmission from the secondary devices. Not Sure ACK ENQ POLL Question N₀ 58 Token Bus has no commercial application in data communications > True > False **Ouestion No 59** HDLC is an acronym for ➤ High-duplex line communication

- High-level data link control
- ➤ Half-duplex digital link combination
- ➤ Host double-level circuit

Question No 59

The BNC-T connector is a T-shaped device with

- > Three
- > Two
- > Four
- > Five

Question No 60

Each station in the Token Ring regenerates the frame.

- > True
- > False

Question No 61
Repeater works on layer.
Data Link
> Physical
Network
> Application
Question No 62
Trunks are transmission media such asthat handle the telephone to the nearest end office.
➤ Satellite links
> Twisted-pair & Fiber-optic
> Twisted pair & Floor optic
Fiber-optic
Question No 63
At the data-link layer,protocol is designed to handle both flow and error control,
but communication is one frame at a time.
○ Simple
SimpleGo-Back-N
Selective-Repeat
o Stop-and-Wait
Question No 64 The PPP greate and uses a subject to the property of the proper
The PPP protocol uses, which is responsible for establishing,
The PPP protocol uses, which is responsible for establishing, maintaining, configuring, and terminating links.
The PPP protocol uses, which is responsible for establishing, maintaining, configuring, and terminating links. > Internet Protocol Control Protocol (IPCP)
The PPP protocol uses, which is responsible for establishing, maintaining, configuring, and terminating links. Internet Protocol Control Protocol (IPCP) Challenge Handshake Authentication Protocol (CHAP)
The PPP protocol uses
The PPP protocol uses, which is responsible for establishing, maintaining, configuring, and terminating links. > Internet Protocol Control Protocol (IPCP) > Challenge Handshake Authentication Protocol (CHAP) > Network Control Protocols (NCPs)
The PPP protocol uses
The PPP protocol uses, which is responsible for establishing, maintaining, configuring, and terminating links. > Internet Protocol Control Protocol (IPCP) > Challenge Handshake Authentication Protocol (CHAP) > Network Control Protocols (NCPs) > Link Control Protocol (LCP) Question No 65 The original Ethernet technology with the data rate of 10 Mbps is called? > Standard Ethernet > Fast Ethernet > Gigabit Ethernet > Gigabit Ethernet Question No 66 Normally the value of Kmax in pure ALOHA is > 10
The PPP protocol uses

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> FDMA
► TDMA
Question No 68
In CSMA/CAis the amount of time divided into slots.
Contention Window
Interframe Window
Fragmented Window
Collided Window
Question No 69
Aloha, CSMA/CD and CSMA/CA are part of
Controlled Access protocol
Channelization protocol
Mutual access protocol
Random Access protocol
Question No 70
ALOHA the earliest random access method was developed in early
• 1950s
• 1960s
• 1980s
• 1970s
Question No 71 For FEC using YOR approximation and divide a product into Nichards and good to cond
For FEC using XOR operation, we divide a packet into N chunks, and need to sendchunks to the receiver side.
N
2N
(N+1)/2
N+1
Question No 71
Thelayer is responsible for the creation and delivery of a frame to another node,
along the link.
Application
➤ Network
Physical
▶ Data-link
Question No 72
Physical Data-link Question No 72 IP addresses are the identifiers at thelayer. Physical Physical
Physical
Data-link Transport
Transport Network
,
Question No 73 Each host or each interface of a router is assignedaddress.
A multicast
A hutteast A broadcast
Both multicast or broadcast
both multicast of broadcast

A unicast	
Question No 74	
The ARP protocol is one of the auxiliary protocols defined in the	layer, which maps
an IP address to a logical-link address.	
an IP address to a logical-link address. Physical Data-link Transport Network Question No 75 Following are the examples of connecting devices EXCEPT Link Layer Switches Hub Routers Wire Question No 76 eliminates collision and connect heterogeneous devices. Hub Repeater	Tir
o Bridge	
o <mark>Switch</mark>	
Question No 77	
creates looping problem in learning switch. > Unicast > Multicast > None of the Given	
Broadcast	
Question No 78 The term FTTC stands for	
Front Technology Terminal Connection	511
Free Technology Transmission Connection	111
Fiber Terminal Transmission Commission	
Front Technology Terminal Connection Free Technology Transmission Connection Fiber Terminal Transmission Commission Fiber to the Curb Ouestion No. 79	
Question No 79 Multiple-access Protocol is divided into	
Two categories Four categories Five categories Three categories	

Question No 80 The original Ethernet technology with the data rate of 10 Mbps is calledEthernet.
Fast
Gigabit
10 Gigabit
Standard
Question No 81
CSMA/CD is not used inEthernet.
Standard
Fast
Gigabit
10 Gigabit
Question No 82
The amplitude of a digital signal depends upon theto represent a bit.
Phase Phase
Wavelength
Bandwidth
Voltage Voltage
Question No 83
In IEEE 802.11, a station with mobility can move from one BSS to another, but the
movement is confined inside one ESS.
None of the choices are correct
No-transition No-transition
ESS-transition
BSS-transition BSS-transition
Question No 84
In IEEE 802.11, communication between two stations in two different BSSs usually occurs
via two
BSSs
ESSs
None of the given
Aps () A (
Question No 89
A property of a signal where it is being received by receiver after reflection from different intermediate objects (Building, iron polls, walls) is called
 Attenuation Interference
o Interference
o Error
 Multipath Propagation Question No 90
medium is used in wireless LANs for transportation of data.
Copper pair cable

Optical fiber ca	ble
Coaxial cable	

Air

Question No 91

In context of control signaling network, what does STP stand for _____

- Shielded twisted pair
- Signaling transmission point
- Signal transportation procedure
- Signal transfer point

Question No 92	1
POP stands for	

- o Presentation of points
- Points of points
- Points of packets
- Points of Presence

Question No 93

What does LATA stand for ____

- Local Area Transmission Arena
- ► Local-Access Transit Access
- Local-Areas Transport Areas
- **Local-Access Transport Areas**

Ouestion No 94

Unipolar encoding scheme is not supported over the medium having

- > The capability of handling DC component
- > Low speed
- ➤ High speed
- No capability of handling DC component

Question No 95

The amplitude of a digital signal depends upon the_____to represent a bit.

- ► Phase
 - **►** Wavelength
 - **▶** Bandwidth
 - **Voltage** ▶

Question No 96

Transmission Control Protocol is a(n) layer protocol

- > Application
- > Network
- Session
- Transport

Question No 97

In _____each station is allotted a time slot during which it can send data

- > NDMA
- > CDMA
- > TDMA
- > FDMA

Ouestion No 98

In_____collisions are avoided by deferring transmission even if the channel is idle

- ➤ The Slotted Frame
- > The Deployment Frame
- > The Contention Window
- The Interframe Space

Question No 99

In the context of Ethernet Implementations, maximum medium length of 10 Base-F was meters.

- > 500
- > 1000
- > 2000
- > 150

Question No 100

Collisions in CSMA/CA are avoided through

- > The Interframe Space
- > The Contention Window
- Acknowledgments
- All of the given

Question No 101

The extra bits added with the original data for error detection/correction are called

- Process IDs
- Redundant bits
- ► Fault bits
- Port Number

Question No 102

____are used to exchange session management and control between connected devices.

- U-frames
- N-frames
- S-frames
- ► I-frames

Ouestion No 103

The message 1110 sent by source is received by a destination as 1011. This is _____types of err.

▶ Hamming

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- Single-Bit
- Uni-Bit
- **Brust**

Question No 104

; into blocks o₁ = In Block code we divide our message into blocks of K bits called as

- Password
- Code word
- Data words
- Cross words

Ouestion No 105

DLC in Data Link Layer stand for

- Demand Link coordination
- Data Line Code
- Data Link Control
- Divide Line Communication

Question No 106

is responsible for governing node to node Communication.

- Data Link Layer
- Session Layer
- Presentation Layer
- Application Layer

Question No 107

Go-Back-N protocol is one of the Layer protocol, which is used to control the flow of data during the transmission

- Presentation
- Network
- Data Link
- Physical

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Question No 108

than the erro detection. Error correction in more

- Useless
- Informal
- Difficult
- **Easy**

Question No 109

Stop-and-Wait protocol is used for_____

- ► Flow control Only
- Neither flow nor error control

Both flow and error control

Question No 110	
is not a function of Data Link contr	ol

- Framing
- ► Error Control
- ► Flow Control
- Modulation

Ouestion No 111

Payload filed of the PPP frame is of variables Size and it can carry maximum Data up to___

- ▶ 10 Bytes
- **>** 500 Bytes
- ▶ 100 Bytes
- ► 1500 Bytes

Question No 112

In Block Coding Scheme, number of Code word is always_____data wods.

- Equal to
- > same as
- ► Greater Then
- **L**ess then

Ouestion No 113

High-Level Data Link Control(HDLC) defines_types of frames to deal with the transfer modes.

- **Three**
- Two
- Four
- Six

Question No 114

Congestion control is a feature of ____layer(S)

- Transport
- ► All Mentioned
- Network
- Data Link

Question No 115

Error detection and correction are the services provided by _____Layer.

- Physical Layer
- Application Layer
- Data Link Layer

Session Layer

\sim		. •	TA T	1 1	-
()	nes	tion	INO		n
v	ucb		110		·

IN Linear Block codes,__of two valid code words creates another valid code word.

- **AND**
- ► OR
- **XOR**
- NOR

Question No 117

Stop-and-Wait protocol is used for

- Bothe flow and error control
- Error control Only
- Flow control Only
- Nether flow nor error control

Question No 118

CHAP is an Authentication protocol, which uses_____ process to authenticate user information.

- Four way
- Three Way
- Two Way
- ► Five way

Question No 119

Data link layer is divided into____sub Layer

- Seven
- Two
- Five
- Three

Question No 120

If we need to correct a single error in an 8-bit data unit, we need to consider_ possible error location. shelp.con

Question No 121

is not a function of Data Link Control.

- Framing
- **Modulation**
- Flow control
- Error control

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Question No 122 Theis the number of single elements sent per unit time.
 Single rate Period Bit rate Data rate
Question No 123
In ASK, both_andremain constant. Amplitude, Frequency Amplitude, phase Frequency, Phase Amplitude, Samples Question No 124 In an analog hierarchy to carry voice channels, a group can carry
voice channels.
60
20
10
Question No 125
Which of the following sublyer resolves the contention for the shared media. MAC LLC Physical None of the given. Question No 126
What is the period of a Sine wave having frequency of 5 Hz?
Question No 127 In CRC there is no error if the remainder at the receiver is
Question No 127 In CRC there is no error if the remainder at the receiver is
 Equal to the remainder at the sender Zero Nonzero The quotient at the sender Question No 128 Analog To Analog Conversion Methods include AM, PM and FM
AM, FSK and PM AM, FSK and PM

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•	AM, PM and QAM	
•	None of the given	
Question No	<u> </u>	
Signals travel	through fiber optic cable are in the form of	
_		
>	<mark>Light</mark> Bits	
•	Electromagnetic	
>	Bytes	
Question No	130	76
If the Hammi	ng distance between sent and received code word is	The
1	, then it shows that received data is corrupted.	11
(1)		3/1
11	▶ = 0	
10	▶ ≠1	
4 / 1/	▶ =1	
Question No	131	
	PP is a byte that needs to be	whenever
	data section of the frame.	A A
	Duplicated	
•	Blocked	
>	Cleaned	
•	Escaped	
Question No	132	
	is normally used where speed is priority in datatransfer.	
	Serial data transmission	
	Hybrid data transmission	
	Parallel data transmission	
	Both parallel and serial data transmission	
Question No		
Baud rate is g	reater than or equal to the bit rate.	
	True	541
Question No	False	11/2
Question No	is an Authentication Protocol, which is used by the PPPto au	thenticate
passwords.	_is an Authentication Frotocol, which is used by the FFF to au	thenticate
puss words.	СНАР	
	PAP	
	LCP	
•	ICMP	
Question No		
-	HA, the vulnerable time is	the frame

Que In P transmission time.

> Same as

- ► Two times
- ► Three times
- **Four times**

Question No 136

A broadcast signal is received by the orbiting satellites whichrebroadcasts_.

- **b** to the resender
- **b** to the sender
- **t**o the atmosphere
- **none of the given**

Question No 137

In TCP/IP protocol suite, the process of adding header at each layer on sending side is known as

- **Encapulation**
- De-encapulation
- Packetizing
- Framing

Question No 138

By using _____system, change in the file contentsduring file transmission can be avoided.

- Routing
- ► Flow Control
- **Error Detection and Correction**
- Congestion Control

Question No 139

Which of the following consist of just one redundant bit per dataunit?

- ► Two dimensional Parity check.
- **CRC**
- **► Simple Parity Check**
- Checksum

Question No 140

If duration of noise is decreased during a transmission over noisychannel, fixed data rate of the channel will cause _____number of bits being impacted by the noise.

- Constant
- More
- Less
- Zero

Question No 141

The extra bits added with the original data for errordetection/correction are called .

- ► Fault bits
- Port numbers
- Redundant bits
- Process IDs

L-JUNAID TECH INSTITUTE Question No 142 Flow control is needed to prevent_ **Bit errors** Overflow of the sender buffer Overflow of the receiver buffer ► Collision between sender and receiver Question No 143 The inversion of the level represents a 1 bit in__ encoding NRZ-I NRZ-L RZ Manchester Question No 144 The term means that only one bit of a given data unit ischanged from 1 to 0 or from 0 to 1. Packet Error Burst Error Single Bit Error Character Error Question No 145 A sine wave is defined by characteristics. Question No 146 Quadrature Amplitude Modulation (QAM) is the combination of and FSK, PSK > PSK, FSK ASK, PSK ASK, FSK Ouestion No 147 If we need to correct a single error in an 8-bit data unit, we need to consider_____locations. possible error locations. Question No 148

To calculate the data rate for noisy channel_____

used.

ShannonNyquist

formula is

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Propagation
► Greedy
Question No 149
GO-BACK-N protocol is one of thelayer protocols, which
is used to control the flow of data during the transmission.
Physical
Network
Presentation
Data link
Question No 150
Amodem is used to connect two DTEs directly.
NULL CALL
Cable
DSL Name of the advantage
None of the given Question No 151
Time division multiplexing is used insystems.
Analog
► Hybrid
Digital
► Automated
Question No 152
In OSI model headers are added at layer
▶ 1,2,3 only
▶ 6,5,7 only
▶ 5,4,3 only
(5.42.2
6,5,4,3,2 only Question No 153
Line Configuration refers to the way two or more devices attachto a
Path
Circuit Circuit
► Link (1970) U4-1009294
► Router
Question No 154
A sine wave is .
periodic and discrete
Router Question No 154 A sine wave is periodic and discrete aperiodic and discrete periodic and continuous
aperiodic and continuous
Question No 155
The logical connection between the peer layers isconnection.
Physical Direct
▶ Direct

Indirect

Ten	aibl	۸
I en	ועוצ	Œ

Question No 155

What is the frequency of a sine wave if it completes one cycle in 2 seconds?

0.5

0.6

0.3

0.2

Question No 156

In Synchronous TDM, Time slots are not same in number asinput devices.

- **True**
- **False**

Question No 157

_category of coaxial cable is used for thin Ethernet.

- ► **RG-58**
- RG-59
- ► RG-1
- ▶ RG-47

Ouestion No 157

Radio wave transmission utilizes propagation.

__different types of

- Two
 - **Three**
 - **Four**
 - **Five**

Question No 158

BSC supports_transmission using_____flow control.

- ► Full-duplex, Stop and wait ARQ
- ► Half-duplex, Selective reject ARQ
- Full-duplex, Selective reject ARQ
- ► Half-duplex, Stop and wait ARQ

Question No 159

In selective-reject ARQ, only the specific damaged or lost frame is .

- Retransmitted
- Forwarded
- Selected
- Rejected

Question No 160

Error detection and correction are the services provided by

layer.

- Data link layer
- ► Application layer
- Physical layer
- Session layer

Question No 161

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The generates the data and passes it along withany control information to a	
DTE, DCE	
DCE, DTE	
DTE, DTE	
▶ DCE, DCE	
Question No 162	
Analog refers to something that is continuous in	
► <mark>Time</mark>	
► Space	
Frequency	
None of the given	
Question No 163	
Time domain shows changes in	
time w.r.t signal amplitude	X
signal amplitude w.r.t time	
time	Ĵ
All of the given	X
Question No 164 Mr. Asif while sitting in Lahore is talking with his friend in Dubaithrough Skype is an	
example of	
Local Area Network	
Metropolitan Area Network	
Wide Area Network	
► Home Based Network	
Question No 165	
Which level of the TCP/IP reference model routesdata/information across a	
network channel?	
 Application Layer 	
Data Link Layer	
Transport Layer	
Network Layer	
Question No 166	
There aretypes of serial transmission.	
Question No 166 There aretypes of serial transmission. 3 4	
Vulmsk 41p.	
Julinsh 2 1	
None of the given	

_components.

Question No 167

Latency is made of ______ **Two**

Three Four Five

Question No 168	
Like 10 Base 5, 10 Base 2 is a	topology LAN.
▶ Ring	
► Mesh	
Star	
Bus	
Question No 169	
is the rate of change w	rith respect to time.
a. Voltage	THU HIA
b. Time	ITICII
c. Frequency	
d. Amplitude	10/1/
Question No 169	
VA VA / -	that they can communicate with each other and share
information is called a	
4 / 1/	
> satellite	
protocol	The state of the s
broadcast	
network	
of parity bits? Checksum Cyclic Redundancy Cl Longitudinal Red Ch Vertical Redundancy Cl Question No 171 Central Hub in a Tree is an Active hub passive hub Question No 172 Time domain plot show changes in si true false Question No 172	Heck (LRC) Heck (VRC)
Question No 173 CHAP is an Authentication Protocol	which usesprocess to
CIT II to an radiomication riotocol,	process to

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authenticate user information.
► Two-way
► Three-way
► Four-way
Five-way
Question No 174
No matter whether the link is dedicated or broadcast, data link control
(DLC) layer provides services between
Virtual LANs
Two adjacent nodes
Ethernet links
Source and destination PCs
Question No 175
Encoding digital data into digital signals is called Analog to Digital Convention Analog to Digital Convention
Analog-to-Digital Conversion
 Digital-to-Digital Conversion Digital-to-Analog Conversion
None of the given
Question No 176
encoding is almost obsolete today
▶ Bipolar
▶ <mark>Unipolar</mark>
Polar
None of the given
Question No 177
The Internet is
software for sending e-mail around the world
a government-owned agency that links computers
a global network of computers networks
a specialised form of local area network
Question No 178
PSK is susceptible to the noise degradation.
TrueFalse
Question No 179
Low pass channel hasbandwidth between two stations.
Dedicated
Shared
Multiplexed
▶ Infinite
Question No 180

In ASK, Noise usually affects the

AmplitudePhase

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	Sample
•	Frequency
•	Infinite
Question No	181
The flag in P	PP is a byte that needs to bewhenever it
	e data section of the frame.
	Duplicated
	Blocked
	Cleaned
	Escaped
Question No	
Which of the	following is not a characteristic of a sine wave?
1	Amplitude
11	Segmentation District Control of the
	Phase
4 1 1	Frequency
Question No	Infinite
	time division multiplexing, number of slots in frame areless than
III statisticai	Output data rate
7	Input lines
	Input frequency
	Multiplexed T lines
	Infinite
Question No	
•	gnal has "L" number of levelsis the number of
_	to represent each level.
	Log L
	Log Base 2 L
	L Square
•	Log(2*L)
•	Infinite (1) 4 - 16 5 9 7 9 4
Question No	185
is re	sponsible for governing node to node communication.
	Application Layer
	sponsible for governing node to node communication. Application Layer Session Layer Data Link layer Presentation Layer
	Data Link layer
	Presentation Laver

Infinite Question No 186

called_____

► Standard Ethernet

Fast EthernetGigabit Ethernet

The original Ethernet technology with the data rate of 10 Mbps is

- ▶ 10 Gigabit Ethernet
- Infinite

Question No 187

What is the period of a Sine wave having frequency of 2 Hz?

0.2

0.1

0.5

0.3

Question No 188

In line discipline after the data transmission, the sending system

finishes with an _____

- **EOT**
- **EKT**
- **ENT**
- **ESP**
- Infinite

Question No 189

are used for Multi cas communication, such as radio and Television.

- Microwaves
- Radio Waves
- Light waves
- ► Infrared Waves

Question No 190

POTS stand for

- ► Plain Old Telephone System
- ► Plain Old Telephone Services
- ▶ Plain Old Time Sharing
- Plain Old Telephone Set

Question No 191

, a station monitors the medium after it sends a frame to see if the transmission was successful.

- CSMA
- None of Given
- CSMA/CA
- ► CSMA/CD

Question No 192

DSL stand For

- Vulmshelp.com Digital Subscribe Line
- ▶ Data Subscribe Line
- Data Switched Line
- Digital Switched Line

Question No 193

In Ethernet frame, both destination and sender addresses are of length .

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▶ 2 byte
▶ 4 byte
► <mark>6 byte</mark>
▶ 5 byte
Question No 193
Data Link layer provides services to thelayer.
Network The state of the state
► Transport
Application
Session
Session Question No 194 is/are un-reliable protocol(s). TCP IR and TCP
is/are un-reliable protocol(s).
TCP
IP and ICP
► IP and UDP
UDP
Question No 195
When we represent the data in CDMA, if a station is idle then it sends
1 In Civilian
► Infinity
Question No 196
In the context of Ethernet address, the source address is always aaddress.
Multicast Multicast
► Broadcast
► Unicast
► 128 Broad Cast
Question No 197
is the process of converting digital data to digital signals.
Line Coding
Multicast
> Broadcast
Unicast
Question No 198
In even parity check code, the value of syndrome is if the number of 1s is even.
4
0
1
2
Question No 199
Ineach band is reserved for a specific station, and it belongs to the station
all the time.
FDMA

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	► TDMA
	► CSMA
	► CDMA
Question	No 200
MAC add	lress is of
	▶ 48 bits or 64 bits
	▶ 24 bits
	▶ 36 bits
	▶ 42 bits
Question	No 201
Checksur	n is an error-detection technique that can be applied to a message oflength.
	Exactly 8
4	Exactly 4
1	Exactly 32
	Any
Question	No 202
A persona	al computer or workstation on an Ethernet network must havecard.
NY I	None of the Given
77	▶ TDI
4	▶ PCI
	▶ NCI
Question	
One of th	e most common protocols for point-to-point access is
	▶ PPP
	▶ IP
	▶ UDP
	► TCP
Question	
	o find Hamming distance between two pair of words, logical operation is
used.	MARINE (1000) (1000) (1000) (1000)
	NAND
	NOR AND
	► AND
0	OR
Question	
In order to in	o resolve link layer address of the next node, the first generated ARP request is always mode.
	► Multicast
	▶ <mark>Unicast</mark>
	► Multiplex

____transmission technology (based on Ethernet) provides a data rate of 1 billion bits per

Broadcast

Question No 206

second.

- Gigabit Ethernet
- ► Standard Ethernet
- ▶ 10BASE-T Ethernet
- ► Fast Ethernet

Question No 207

The message 1110 sent by a source is received by a destination as 1011. This is ______type of error.

- ► Hamming
- ► Single-Bit
- ► Uni-Bit
- Burst

Question No 208

a3:34:45:11:92:F1 is a _____link layer address.

Unicast OR Data

Both are correct

- Broadcast
- Multicast
- Multiplexer

Question No 209

In which controlled-access method all data exchanges must be made through primary device even when the ultimate destination is a secondary device?

- Port Forwarding
- Reservation
- Polling
- Token Passing

Question No 210

was used as the medium in 10 Base-T.

WW.VU

- ► Twisted Cable
- ► Thick Coaxial Cable
- ► Thin Coaxial Cable
- Two Mode Fiber Cable