

# AL-JUNAID INSTITUTE GROUP

CS610-Computer Network

SOLVED MCQS QUIZ 1

LECTURE (1 to 10)

Solved by JUNAID MALIK



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----- have advantages arisen from the size and ease of computation.

- ▶ CRC
- ▶ Parity (Page 19)
- ▶ Checksums
- ▶ None of given

In Cyclic Redundancy Checking, CRC is \_\_\_\_\_.

- a. Divisor
- b. Quotient
- c. Remainder page 20
- d. Dividend

The satellite or radio topology in which all computers are connected to each other via satellite or radio wave is a kind of

- a. Broadcast network page 5
- b. Point-to-Point network

Which of the following two operations are performed by Ethernet CD?

- I. It monitors outgoing signals.
- II. Grabbled signal is interpreted as a collision.
- III. Signals are sent back to the sender.

- a. I and III
- b. II and IV
- c. II and III
- d. I and II page 28

While transmitting data from source A to destination B, 4 bits are changed during the transmission then the error is a

- \_\_\_\_\_.
- a. Burst error page 22

- b. Single error
- c. Double error
- d. Logic error
- d. TDMA

Missing \_\_\_\_\_ in a frame format indicates receiving computer missed beginning of the message.

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a. eot

**b. soh** page 16

c. sot

d. eoh

The \_\_\_\_\_ of errors is easier than the \_\_\_\_\_ of errors.

a. correction; detection

**b. detection; correction** cs601 handouts

c. correction; creation

d. detection; manipulation

The \_\_\_\_\_ of errors is difficult than the \_\_\_\_\_ of errors.

**a. correction; detection** google

b. detection; correction

c. correction; creation

d. detection; manipulation

The \_\_\_ layer of the OSI model takes the data from the physical layer and perform error checking.

a. Transport

**b. Data link** google

c. Application

d. Presentation

CBR stands for \_\_\_\_\_

a. Constant Byte Rate

**b. Constant Bit Rate**

c. Connection break Recovery

d. Constant Borrow Rate

A network that uses \_\_\_\_\_ usually consist of a single long cable to which

computer attach.

a. Star Topology

b. Ring Topology

**c. Bus Topology** page 26

d. Bus and Ring Topology

If simultaneous transmission occurs, the frames interfere with each other and this phenomenon is called \_\_\_\_\_.

a. packet loss

**b. collision** page 28

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- c. delayed transmission
- d. coordination

In \_\_\_\_\_ all computers are attached to a central hub

a. Ring topology

**b. Star topology** page 31

- c. Hub topology
- d. Bus topology

For adding a new computer in a point to point network \_\_\_\_\_ new connection

will be required

- a. N
- b. N-1** page 23
- c. N-2
- d. 2n

The fastest Ethernet hardware operates at a rate of \_\_\_\_\_

- a. 1000 bps
- b. 100 Mbps** page 27
- c. 10 Mbps
- d. 1000 Mbps

Which of the following the benefit to point to point communication? a. Quick to configure

- b. Security implementation** page 23
- c. Cost
- d. Less availability

Thick Ethernet is known as \_\_\_\_\_

- a. 10 Base 2
- b. 10 Base 5** google
- c. 10 Base T
- d. 10 Base 10

In a ping command, small –sized information packets of \_\_\_\_\_ are sent.

- a. TCP
- b. UDP
- c. ICMP** page 11
- d. IGMP

Which of the following is not a function of ping commends?

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- a. Local computer network issue
- b. Congestion in the network
- c. Relay nodes page 11**
- d. Remote host availability

Fixed network is a type of network which is classified with respect to the \_\_\_\_\_ factor

- a. Size
- b. Connectivity
- c. Medium
- d. Mobility page 6**

Parity bit can detect \_\_\_\_\_ error(s)

- a. 4
- b. 3
- c. 2 page 19 (even or odd)**
- d. 1

How many computers are mandatory to form a network?

- a. 1
- b. 2 google**
- c. 4
- d. 8

\_\_\_\_\_ is standard wireless LAN that uses radio signals at 2.4GHz.

- a. IEEE 803.16
- b. IEEE 802.15
- c. IEEE 802.3
- d. IEEE 802.11 page 29**

LAN interface hardware obeys \_\_\_\_\_ access rule.

- a. CSMA/CD page 34**
- b. Round robin
- c. First come first served
- d. High priority

Which multiplexing technique transmits digital signals?

- a. WDM
- b. FDM
- c. TDM page 15**
- d. GSM

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\_\_\_\_\_ and \_\_\_\_\_ are the two frame types.

- a. Internal and external
- b. Single and dual
- c. Implicit and explicit
- d. Multicast and broadcast** page 35

Bluetooth uses shared medium and \_\_\_\_\_ instead of coaxial cable.

- a. Radio waves** page 29
- b. Infrared waves
- c. Micro waves
- d. Low frequency waves

Which of the following is not a guided medium?

- a. Twisted-pair cable
- b. Fiber-optic cable
- c. Atmosphere** google
- d. Coaxial cable

As a result of ARPA research, the first network was established which was named as \_\_\_\_\_.

- a. INTERNETWORKING
- b. ARPNET
- c. ARPANET** page 9
- d. PACKET NETWORK

LAN interface uses \_\_\_\_\_ to copy frame data directly from main memory

- a. DMA** page 34
- b. FDDI
- c. Hard disk
- d. Flash

The Gigabit Ethernet hardware operates at a rate of \_\_\_\_\_.

- a. 10 Mbps
- b. 100 Mbps
- c. 1000 Mbps** reference book page 263
- d. 1000 Gbps

In the early resource sharing era, which resources were shared among users?

- a. Computation** page 9
- b. Floppy Drives

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- c. Hard Disk
- d. Printers

Which type of network consists of wireless connection of laptops in a university classroom?

- a. WAN
- b. MAN
- c. Fog
- d. LAN google

There are \_\_\_\_\_ types of data stuffing.

- a. 1
- b. 2 page 17
- c. 0
- d. 5

\_\_\_\_\_ masks your IP address.

- a. Firewall
- b. Antivirus
- c. VPN
- d. Incognito mode

\_\_\_\_\_ was the first automated tool required to see whether the given computer is online or not.

- a. Probing program
- b. PING program page 11
- c. status program
- d. None of the above

In which type of error detection, the arithmetic sum is calculated before and after the transmission of data at both communication ends?

- a. CRC
- b. Parity
- c. Checksum page 19
- d. Hash Function

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Ethernet uses a \_\_\_\_\_ bit static addressing scheme in which each device is

assigned a unique address by the manufacturer.

- a. 64
- b. 48**
- c. 32
- d. 16

A \_\_\_\_\_ relies on the hardware manufacturer to assign a unique physical address to each network interface.

- a. Static addressing scheme page 34**
- b. Configurable addressing scheme
- c. Dynamic addressing scheme
- d. None of the given

In \_\_\_\_\_ topology, if the switch goes down all the computers will be disconnected.

- a. Star**
- b. Ring
- c. Bus
- d. Mesh

Which type of network consists of wired computers in a university classroom?

- a. MAN
- b. PAN
- c. WAN
- d. LAN**

If you as a network administrator want to know the traffic flow of your data while communicating with a remote computer which of the following will be used to know about intermediate routers?

- a. Ipconfig
- b. Ping page 11**
- c. Traceroute
- d. Arp

Hardware address is also called \_\_\_\_\_.

- a. Physical address**
- b. Logical address
- c. IP address

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d. Port address

Which of the following network is using the TCP/IP model globally?

a. PAN

b. SAN

c. LAN

**d. The Internet**

The length of hardware address is \_\_\_\_\_.

a. One to ten bytes

b. One to five bytes

**c. One to six bytes** page 34

d. One to seven bytes

A network analyzer is also called \_\_\_\_\_.

a. Network manager

b. Network administrator

**c. Network monitor** page 37

d. Network

No any error detection scheme is perfect because transmission errors can affect

\_\_\_\_\_.

a. Data

b. Additional Information

**c. Additional information & data** google

d. Transmission medium

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Which layer of the OSI Model directly communicates and controls the transmission medium:

- a. Transmission
- b. Physical**
- c. Application
- d. Network

In \_\_\_\_\_ technique data is treated as a sequence of integers and their

arithmetic sum is computed and the carry bits are added to the final sum.

- a. CRC
- b. Bit stuffing
- c. Checksum** page 19
- d. 2D Parity

A network uses \_\_\_\_\_ to arrange computers in a single closed loop.

- a. Star Topology
- b. Mesh Topology
- c. Ring Topology** page 25
- d. Bus Topology

Which of the following tasks is not done by the second layer of the OSI model?

- a. Flow control
- b. Framing
- c. Channel coding** google
- d. Error control

LAN and WAN are classified according to their \_\_\_\_\_.

- a. Size** page 4
- b. Connectivity
- c. Medium
- d. Mobility

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The identifier that is used for data transfer in the virtual circuit network is called \_\_\_\_\_.

- a. Virtual circuit identifier
- b. Global address
- c. Network identifier
- d. IP identifier

In Direct point to point communication adding the Nth computer requires

\_\_\_\_\_ new connections

- e.  $N^2$
- f.  $N-1$
- c.  $(N^2 - N)/2$  page 23
- d.  $N(N-1)$

Point to point topology is

- a. Size based
- b. Mobility based
- c. Connectivity based page 5
- d. Medium based

108. IEEE LLC / SNAP header is \_\_\_\_\_ which is used to specify the type of data.

- a. 8 octets google
- b. 16 octets
- c. 32 octets
- d. 64 octets

IEEE LLC / SNAP header is \_\_\_\_\_ which is used to specify the type of data.

- a. CRC
- b. Bit stuffing
- c. Checksum
- d. 2D Parity

What is the largest network in existence?

- a. The internet google
- b. A PAN
- c. A Fog
- d. Edge Network

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The frame format of any LAN technology must consists of \_\_\_ and \_\_\_ -

- a. Payload and CRC
- b. Frame header and CRC
- c. Payload and Frame type
- d. Frame header and payload** page 36

Which of the following cannot be used to extend a LAN?

- a. Repeaters
- b. Switches
- c. Routers
- d. Fiber modems**

According to size, there are \_\_\_ classifications of networks

- a. 2** page 2
- b. 3
- c. 4
- d. 5

In which topology terminators are used at the end of the cable?

- a. Star
- b. Bus**
- c. Ring
- d. Mesh
- d. Plastic virtual circuit

Hardware that calculates a CRC used two simple components \_\_\_\_\_

- a. AND unit and XOR Unit
- b. Shift register and XOR unit** page 20
- c. Shift register & AND unit
- d. Shift register and Shift XCR unit

Thin ethernet is known as \_\_\_\_\_

- a. 10 base 2** google
- b. 10 base 5
- c. 10 base T
- d. All of the above

If a sender with a 1 Gigabit NIC and receiver with 100 Megabit NIC wants to communicate with each other than at which speed they can communicate

- a. 11 Megabit

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**b. 100 Megabit**

c. 1 Gigabit

d. 1.1 Gigabit

\_\_\_\_\_ is used as an alternative of packet for a specific computer network technology

e. Datum

f. Token

g. Ether

**d. Frame** page 14

The sharing of a medium and its link by two or more devices is called

a. Modulation

b. Encoding

**c. Multiplexing**

d. Line discipline

The topology each computer is connected to a central hub is called

e. Ring topology

**b. Star topology** page 5

c. Tree topology

d. Mesh topology

The basic responsibility of NIC is \_\_\_\_\_

**a. To access medium network**

b. To resource allocation

c. To access memory

d. All of the given option

In Token Ring, if all computers are ready to transmit it enforces

\_\_\_\_\_ access

a. First come first served

**b. Round Robin** page 30

c. Shorter delay

d. Last come first served

The Ethernet standard specifies that frames are sent using the

\_\_\_\_\_ scheme.

a. Differential Manchester

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b. Not Return to Zero (NR2)

c. Manchester Encoding page 27

d. Return to Zero (RZ)

Which of the following is a benefit of point to point communication?

a. Quick to configure

b. Security implementation

c. Cost

d. Less availability

\_\_\_\_\_ is not used to extend LAN.

Hub

Fiber modem

Repeater

Bridge

Which types of VPNs are used for corporate connectivity across companies residing in different geographical locations?

Remote access VPNs

Peer-to-peer VPNs

Country-to-country VPNs

d. Site-to-site VPNs google

Star topology is the kind of a.

Tree topology

b. Point-to-point topology page 05

c. Broadcast topology

d. Ring topology

In a \_\_\_\_\_ state, a bridge allows simultaneous use of each segment.

a. Ready

b. Steady

c. Final

d. Startup

The network occupies larger areas like cities & countries is called

LAN

WAN

MAN

All of the above

In link state routing \_\_\_\_\_ send link-state information about local connections.

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- Bridges
- Switches
- Routers
- Hubs

Transmission media are usually categorized as \_\_\_\_\_.

- a. Guided or unguided
- b. Fixed or unfixd
- c. Determinate or indeterminate
- d. Metallic or nonmetallic

Even parity can be used to check for \_\_\_\_\_ bit/ bits of errors.

- a. 1 page 18
- b. 2
- c. 3
- d. 0

Routing table entries can be \_\_\_\_\_ with a default route.

- a. Collapsed
- b. Redirected
- c. Emerged
- d. Guaranteed

The system administrator must coordinate to avoid the conflict in \_\_\_\_\_ hardware addressing scheme.

- Static
- Dynamic
- Configurable
- Fixed

\_\_\_\_\_ network does not depend on CSMA/CD.

- Ethernet
- Fast Ethernet
- Gigabit Ethernet
- Wireless

Which of the following technologies can extend the diameter of LAN medium?

- Fiber optic
- Repeater
- Diameter of LAN medium is not extendable
- Both. Fiber optic and Repeaters

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The \_\_\_\_\_ scheme must be reliable to prevent conflicts. a. Static

- b. Dynamic page 34
- Configurable
- Fixed

Which addressing can be only used in the local area networks?

- a. IP google
- Physical
- Port
- Protocol

The sharing of a \_\_\_\_\_ among the workers in an office is a goal of resource sharing.

- Mouse
- b. Printer page 9
- Keyboard
- Motherboard

Which of the followings is not an advantage of framing?

- Missing eot indicates sending computer crashed
- Missing soh indicates receiving computer missed beginning of message
- c. Delimiters do not contain any user data page 16
- Bad frame is discarded

The \_\_\_\_\_ field of Ethernet frame has the purpose of receiver synchronization.

- a. Preamble page 36
- Frame Type
- Data
- CRC

\_\_\_\_\_ was the first internet available for the first time.

- ARPANAT
- The ARPNET
- The NET
- .ARPANET page 9

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We need packets rather than bits because \_\_\_\_\_

- To compress the data
- Packets move faster
- Sender and receiver need to coordinate to detect
- **transmission errors. Page 14**

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