

**CS610 Solved\_midterm paper**

.Question No: 1 ( Marks: 1 ) - Please choose one

In *Point-to-Point* topology there are two topologies.

- ▶ Tree and Ring
- ▶ Star and Ring
- ▶ **Star and Tree**
- ▶ None of the given

Question No: 2 ( Marks: 1 ) - Please choose one

----- Program sends a message to a remote computer and reports whether the computer responds.

- ▶ **Ping**
- ▶ Traceroute
- ▶ ICMP
- ▶ Non of the given

Question No: 3 ( Marks: 1 ) - Please choose one

----- has no way to determine the cause of the problem.

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- ▶ ICMP
- ▶ Non of the given
- ▶ **Ping**
- ▶ Trace route

Question No: 4 ( Marks: 1 ) - Please choose one

The term----- refers to the general concept of a small block of data

- ▶ **Packet**
- ▶ Frame
- ▶ Data
- ▶ None of the given

Question No: 5 ( Marks: 1 ) - Please choose one

----- scheme, which is designed to help detect transmissions errors, send one extra bit of information with each character

- ▶ **Parity**
- ▶ Checksums
- ▶ CRC
- ▶ None of given

Question No: 6 ( Marks: 1 ) - Please choose one

Local Talk is a LAN technology that employs -----

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▶ **Bus topology**

- ▶ Ring topology
- ▶ None of the given
- ▶ Star topology

Question No: 7 ( Marks: 1 ) - Please choose one

Most LANs that employ ring topology use an access mechanism known as-----

- ▶ CSMA/CD
- ▶ CSMA/CA

▶ **TOKEN PASSING**

- ▶ None of the given

Question No: 8 ( Marks: 1 ) - Please choose one

Ethernet uses a ----- bit static addressing scheme in which each device is assigned a unique address by the manufacturer.

- ▶ 64
- ▶ **48**
- ▶ 32
- ▶ 8

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Question No: 9 ( Marks: 1 ) - Please choose one

Formally named \_\_\_\_\_ informally known as the thick wire Ethernet or Thick net.

- ▶ 10 Base 2
- ▶ **10 Base 5**
- ▶ 10 Base T
- ▶ None of the given

Question No: 10 ( Marks: 1 ) - Please choose one

Formally named \_\_\_\_\_ informally known as the twisted pair Ethernet or TP Ethernet.

- ▶ 10 Base 2
- ▶ 10 Base 5
- ▶ **10 Base T**
- ▶ None of the given

Question No: 11 ( Marks: 1 ) - Please choose one

The maximum size of an Ethernet segment is\_\_\_\_\_

- ▶ 250 meters
- ▶ **500 meters**
- ▶ 700 meters
- ▶ None of the given

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Question No: 12 ( Marks: 1 ) - Please choose one

A Bridge can \_\_\_\_\_

- ▶ Filter a frame
- ▶ Forward a frame
- ▶ Extend a LAN
- ▶ **Do all the above**

Question No: 13 ( Marks: 1 ) - Please choose one

\_\_\_\_\_ computes shortest paths in a graph by using weights on edges as a measure of distance.

- ▶ Greedy algorithm
- ▶ Distance vector algorithm
- ▶ **Dijkstra's algorithm**
- ▶ Non of the given

Question No: 14 ( Marks: 1 ) - Please choose one

\_\_\_\_\_ is used for compressed audio and video where the data rate depends on the level of compression that can be achieved.

- ▶ Constant Bit Rate (CBR) service
- ▶ **Variable Bit Rate (VBR) service**
- ▶ Available Bit Rate (ABR) service
- ▶ None of the given

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Question No: 15 ( Marks: 1 ) - Please choose one

Basic LAN technologies such as Ethernet, Token Ring, and FDDI use a \_\_\_\_\_.

▶ **Connectionless service paradigm**

▶ Connection-oriented service paradigm

▶ Both Connectionless and Connection-oriented service paradigm

▶ None of the given

Question No: 16 ( Marks: 1 ) - Please choose one

The product of delay and throughput measures the \_\_\_\_\_ of data that can be present on the network.

▶ Area

▶ **Volume**

▶ Length

▶ None of the given

Question No: 17 ( Marks: 1 ) - Please choose one

A network with throughput  $T$  and delay  $D$  has a total of \_\_\_\_\_ bit in transit at any time.

▶  $T / D$

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▶ **T x D**

▶ T + D

▶ None of the given

Question No: 18 ( Marks: 1 ) - Please choose one

One repeater \_\_\_\_\_, two repeaters \_\_\_\_\_ the maximum cable length limitation.

▶ **doubles, triple**

▶ square roots, cube roots

▶ and, triple

▶ doubles, cancel

Question No: 19 ( Marks: 1 ) - Please choose one

A network uses a ----- if all computers attach to a central point

▶ **Star Topology**

▶ Ring Topology

▶ Bus Topology

▶ None of the given

Question No: 20 ( Marks: 1 ) - Please choose one

Computers attached to an ethernet use ----- in which a computer waits for the ether to be idle before transmitting a frame.

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▶ **CSMA/CD**

▶ CSMA/CA

▶ TOKEN PASSING

▶ None of the given