



**MIDTERM EXAMINATION  
CS610- Computer Network**

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

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A typical port on an ATM switch operates at \_\_\_\_\_ or higher.

- ▶ OC-2 speed (155Mbps)
- ▶ OC-3 speed (100Mbps)
- ▶ **OC-3 speed (155Mbps)**
- ▶ OC-3 speed (155Gbps)

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

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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: 3 ( Marks: 1 ) - Please choose one**

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\_\_\_\_\_ 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

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

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Which of the following is a connecting device?

- ▶ Bridge
- ▶ Repeater
- ▶ Hub
- ▶ **All the given**

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

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A bridges function in the \_\_\_\_\_ layers(s).

- ▶ Physical (MAC)
- ▶ **Data link**
- ▶ Network

- ▶ Physical (MAC) and Data link

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

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IEEE LLC/SNAP header is -----, which is used to specify the type of data.

- ▶ 8 octets
- ▶ **8 bytes**
- ▶ 8 bits
- ▶ None of the given

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

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The third field of the header consists of ----- bit Ethernet frame type.

- ▶ 48
- ▶ 32
- ▶ **16**
- ▶ 8

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

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An -----method, the network hardware designers specify how type information is included in the frame and the value use to identify various frame types.

- ▶ Explicit frame type
- ▶ Ideal frame type
- ▶ Implicit frame type
- ▶ None of the given

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

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

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

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

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The Fast Ethernet hardware operates at a rate of -----

- ▶ 10 Mbps
- ▶ **100 Mbps**
- ▶ 1000 Mbps
- ▶ None of the given

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

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----- 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: 12 ( Marks: 1 ) - Please choose one**

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Computer networks are often called ----- because they use packet technology.

- . ▶ Ethernet
- . ▶ Switch networks
- . ▶ **Packet networks**
- . ▶ None of the given

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

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

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

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

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In -----, network occupies larger areas like cities & countries.

- . ▶ LAN
- . ▶ WAN
- . ▶ MAN
- . ▶ None of the given

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

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In -----, network occupies the smaller area like a room a floor or a building

- . ▶ **LAN**
- . ▶ WAN
- . ▶ MAN
- . ▶ None of the given

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

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

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

**Question No: 17 ( Marks: 2 )**

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**Question No: 18 ( Marks: 2 )**

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**Question No: 19 ( Marks: 3 )**

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Why 10-base T wiring scheme is called star shaped bus wiring scheme.

**Question No: 20 ( Marks: 5 )**

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What are the main factors due to which mechanism of error detections schemes differ?

**Question No: 21 ( Marks: 10 )**

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How much data can be present on an original Ethernet segment at one time? To find out, compute the delay-throughput product. The original Ethernet operate at 10 mega bits per second, and a segment was limited to 500 meters. Assume the signals propagate down the cable at 66 percent of the speed of light.