

**CS610- Computer Network
MIDTERM EXAMINATION
Spring 2010**

Question No: 1 (M a r k s: 1)

No error detection scheme is perfect because transmission errors can affect the additional information as well as the data.

▶ **True** (Computer Networks and Internets, page82)

▶ False

Question No: 2 (M a r k s: 1)

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

▶ **Ping** (Computer Networks and Internets, page9)

▶ Traceroute

▶ ICMP

▶ Non of the given

Question No: 3 (M a r k s: 1)

----- was especially concerned about the lack of high powered computers.

▶ **ARPA** (Computer Networks and Internets, page5)

▶ IEEE

▶ EIA

▶ Non of the given

Question No: 4 (M a r k s: 1)

The term ----- is used to denote the definition of a packet used with a specific type of network.

▶ Packet

▶ **Frame** (Computer Networks and Internets, page 73)

▶ Data

▶ None of the given

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Question No: 5 (M a r k s: 1)

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

- ▶ Ethernet
- ▶ Switch networks
- ▶ [Packet networks](#) (Computer Networks and Internets, page 73)
- ▶ None of the given

Question No: 6 (M a r k s: 1)

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

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

Question No: 7 (M a r k s: 1)

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

- ▶ CSMA/CD
- ▶ CSMA/CA
- ▶ [TOKEN PASSING](#) (Computer Networks and Internets, page95)
- ▶ None of the given

Question No: 8 (M a r k s: 1)

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

- ▶ [8 octets](#) (Computer Networks and Internets, page112)
- ▶ 8 bytes
- ▶ 8 bits
- ▶ None of the given

Question No: 9 (M a r k s: 1)

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

- ▶ 10 Base 2
- ▶ 10 Base 5
- ▶ [10 Base T](#) (Page 43)
- ▶ None of the given

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Question No: 10 (M a r k s : 1)

An interface for twisted pair Ethernet must have an _____ connector , and must generate signals according to the _____ specification.

- ▶ [RJ-45, 10 Base T\(Computer Networks and Internets, page 126\)](#)
- ▶ RJ-45, 10 Base 5
- ▶ BNC, 10 Base 2
- ▶ BNC, 10 Base T

Question No: 11 (M a r k s : 1)

A bridges function in the _____ layers(s).

- ▶ [Physical \(MAC\)](#) [Click here for Detail](#)
- ▶ Data link
- ▶ Network
- ▶ [Physical \(MAC\) and Data link](#)

Question No: 12 (M a r k s : 1)

A Bridge can _____

- ▶ Filter a frame
- ▶ Forward a frame
- ▶ Extend a LAN
- ▶ [Do all the above](#) [Click here for Detail](#)

Question No: 13 (M a r k s : 1)

A Bridge forwards or filters a frame by comparing the information in its address table to the frame's _____

- ▶ Layer 2 source address
- ▶ Source node's physical address
- ▶ [Layer 2 destination address](#) [Click here for Detail](#)
- ▶ Layer 3 destination address

Question No: 14 (M a r k s : 1)

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

- ▶ Greedy algorithm
- ▶ Distance vector algorithm
- ▶ [Dijkstra's algorithm](#) (Computer Networks and Internets, page112)
- ▶ Non of the given

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Question No: 15 (M a r k s: 1)

_____ is used for audio and video, since these have predefined maximum data rates

▶ **Constant Bit Rate (CBR) service** (Page 71)

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

Question No: 16 (M a r k s: 1)

Unlike Frame Relay and ATM, SMDS (Switched multi-megabit Data service) offers _____ .

▶ **Connectionless service paradigm** (Computer Networks and Internets, page112)

- ▶ Connection oriented service paradigm
- ▶ Both Connectionless and Connection-oriented service paradigm
- ▶ None of the given

Question No: 17 (M a r k s: 1)

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

- ▶ T / D
- ▶ **T x D**(Computer Networks and Internets, page203)
- ▶ T + D
- ▶ None of the given

Question No: 18 (M a r k s: 1)

ATM is designed to work on _____.

- ▶ Twisted Pair
- ▶ Coaxial
- ▶ Radio Frequency
- ▶ **Fiber** (Computer Networks and Internets, page 72)

Question No: 19 (M a r k s: 1)

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

▶ **CSMA/CD** (Computer Networks and Internets, page 93)

- ▶ CSMA/CA
- ▶ TOKEN PASSING
- ▶ None of the given

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Question No: 20 (M a r k s: 1)

FDDI can transmits data at a rate of -----

▶ **100 million bits per second** (Page 314)

- ▶ 10 million bits per second
- ▶ 1000 million bits per second
- ▶ None of the given

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Question No: 1 (M a r k s: 1)

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

- ▶ Star and Tree
- ▶ Tree and Ring
- ▶ Star and Ring

▶ **Star and Tree** (Page 5)

- ▶ None of the given

Question No: 2 (M a r k s: 1)

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

▶ **Ping(Computer Networks and Internets, page9)**

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

Question No: 3 (M a r k s: 1)

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

- ▶ ICMP
- ▶ **Ping(Computer Networks and Internets, page 11)**
- ▶ Trace route
- ▶ Non of the given

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Question No: 4 (M a r k s: 1)

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

- ▶ [Packet \(Page 16\)](#)
- ▶ Frame
- ▶ Data
- ▶ None of the given

Question No: 5 (M a r k s: 1)

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

- ▶ [Parity\(Computer Networks and Internets, page 77\)](#)
- ▶ Checksums
- ▶ CRC
- ▶ None of given

Question No: 6 (M a r k s: 1)

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

- ▶ [Bus topology \(Page 30\)](#)
- ▶ Ring topology
- ▶ Star topology
- ▶ None of the given

Question No: 7 (M a r k s: 1)

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

- ▶ CSMA/CD
- ▶ CSMA/CA
- ▶ [TOKEN PASSING \(Computer Networks and Internets, page95\) rep](#) ▶
- ▶ None of the given

Question No: 8 (M a r k s: 1)

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

- ▶ 64
- ▶ [48 \(Computer Networks and Internets, page 109\)](#)
- ▶ 32
- ▶ 8

Question No: 9 (M a r k s : 1)

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

- ▶ 10 Base 2
- ▶ [10 Base 5 \(Computer Networks and Internets, page 120\)](#)
- ▶ 10 Base T
- ▶ None of the given

Question No: 10 (M a r k s : 1)

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

- ▶ 10 Base 2
- ▶ 10 Base 5
- ▶ [10 Base T \(Page 43\) rep](#)
- ▶ None of the given

Question No: 11 (M a r k s : 1)

The maximum size of an Ethernet segment is _____

- ▶ 250 meters
- ▶ [500 meters \(Page 27\)](#)
- ▶ 700 meters
- ▶ None of the given

Question No: 12 (M a r k s : 1)

A Bridge can _____

- ▶ Filter a frame
- ▶ Forward a frame
- ▶ Extend a LAN
- ▶ [Do all the above rep](#) [Click here For Detail](#)

Question No: 13 (M a r k s : 1)

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

- ▶ Greedy algorithm
- ▶ Distance vector algorithm
- ▶ [Dijkstra's algorithm \(Computer Networks and Internets, page12\) rep](#) ▶
- ▶ Non of the given

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Question No: 14 (M a r k s : 1)

_____ 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](#) (Page 71)
- ▶ Available Bit Rate (ABR) service
- ▶ None of the given

Question No: 15 (M a r k s : 1)

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

- ▶ [Connectionless service paradigm](#) (Computer Networks and Internets, page112)
- ▶ Connection-oriented service paradigm
- ▶ Both Connectionless and Connection-oriented service paradigm
- ▶ None of the given

Question No: 16 (M a r k s : 1)

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

- ▶ Area
- ▶ [Volume](#) (Page 80)
- ▶ Length
- ▶ None of the given

Question No: 17 (M a r k s : 1)

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

- ▶ T / D
- ▶ [T x D](#)(Computer Networks and Internets, page203) rep
- ▶ T + D
- ▶ None of the given

Question No: 18 (M a r k s : 1)

One repeater _____, two repeaters _____ the maximum cable length limitation.

- ▶ [doubles, triple](#) (Page 49)
- ▶ square roots, cube roots
- ▶ and, triple
- ▶ doubles, cancel

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Question No: 19 (M a r k s: 1)

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

▶ **Star Topology** (Page 25)

- ▶ Ring Topology
- ▶ Bus Topology
- ▶ None of the given

Question No: 20 (M a r k s: 1)

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

▶ **CSMA/CD** (Computer Networks and Internets, page 93) rep

- ▶ CSMA/CA
- ▶ TOKEN PASSING
- ▶ None of the given