CS610- Computer Network
MIDTERM EXAMINATION
Spring 2010

Question No: 1 (Marks: 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, page 82)
► False

Question No: 2 (Marks: 1)
------ Program sends a message to a remote computer and reports whether the computer responds.
► Ping (Computer Networks and Internets, page 9)
► Traceroute
► ICMP
► Non of the given

Question No: 3 (Marks: 1)
---------- was especially concerned about the lack of high powered computers.
► ARPA (Computer Networks and Internets, page 5)
► IEEE
► EIA
► Non of the given

Question No: 4 (Marks: 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
Question No: 5 ( Marks: 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 ( Marks: 1 )
--------------- have advantages arisen from the size and ease of computation.

► CRC
► **Parity** (Page 19)
► Checksums
► None of given

Question No: 7 ( Marks: 1 )
Most LANs that employ ring topology use an access mechanism known as------

► CSMA/CD
► CSMA/CA
► **TOKEN PASSING** (Computer Networks and Internets, page 95)
► None of the given

Question No: 8 ( Marks: 1 )
IEEE LLC/SNAP header is --------, which is used to specify the type of data.

► 8 octets (Computer Networks and Internets, page 112)
► 8 bytes
► 8 bits
► None of the given

Question No: 9 ( Marks: 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
Question No: 10 ( Marks: 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 ( Marks: 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 ( Marks: 1 )
A Bridge can _______

► Filter a frame
► Forward a frame
► Extend a LAN
► Do all the above  Click here for Detail

Question No: 13 ( Marks: 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 ( Marks: 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
Question No: 15 (Marks: 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 (Marks: 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 (Marks: 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 (Marks: 1)
ATM is designed to work on_______.

► Twisted Pair
► Coaxial
► Radio Frequency
► Fiber  (Computer Networks and Internets, page 72)

Question No: 19 (Marks: 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
Question No: 20 ( Marks: 1 )
FDDI can transmit 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

CS610- Computer Network
MIDTERM EXAMINATION
Spring 2010

Question No: 1 ( Marks: 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 ( Marks: 1 )
------ Program sends a message to a remote computer and reports whether the computer responds.

► Ping (Computer Networks and Internets, page 9)
► Traceroute
► ICMP
► Non of the given

Question No: 3 ( Marks: 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
Question No: 4 (Marks: 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 (Marks: 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 (Marks: 1)
Local Talk is a LAN technology that employs---------
► Bus topology (Page 30)
► Ring topology
► Star topology
► None of the given

Question No: 7 (Marks: 1)
Most LANs that employ ring topology use an access mechanism known as------
► CSMA/CD
► CSMA/CA
► TOKEN PASSING (Computer Networks and Internets, page 95) rep
► None of the given

Question No: 8 (Marks: 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 (Marks: 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 (Marks: 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

Question No: 11 (Marks: 1)
The maximum size of an Ethernet segment is__________

► 250 meters
► **500 meters (Page 27)**
► 700 meters
► None of the given

Question No: 12 (Marks: 1)
A Bridge can ______

► Filter a frame
► Forward a frame
► Extend a LAN
► **Do all the above**

Question No: 13 (Marks: 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
Question No: 14 (Marks: 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 (Marks: 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 (Marks: 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 (Marks: 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 (Marks: 1)
One repeater ________, two repeaters ________ the maximum cable length limitation.

► doubles, triple (Page 49)
► square roots, cube roots
► and, triple
► doubles, cancel
Question No: 19 ( Mark: 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 ( Mark: 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

CS610- Computer Network
MIDTERM EXAMINATION
Fall 2008

Question No: 1 ( Marks: 1 ) - Please choose one
A typical port on an ATM switch operates at __________ or higher.

► OC-2 speed (155Mbps)
► OC-3 speed (100Mbps)
► OC-3 speed (155Mbps) (Page 72)
► OC-3 speed (155Gbps)

Question No: 2 ( Marks: 1 ) - Please choose one
The product of delay and throughput measures the _____ of data that can be present on the network.

► Area
► Volume (Page 80) rep
► Length
► None of the given

Question No: 3 ( 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 (Page 71) rep
► Available Bit Rate (ABR) service
► None of the given
Question No: 4  (Marks: 1)  - Please choose one
Which of the following is a connecting device?
► Bridge
► Repeater
► Hub
► All the given  

Question No: 5  (Marks: 1)  - Please choose one
A Bridges function in the ________ layer(s).
► Physical (MAC)  
► Data link
► Network
► Physical (MAC) and Data link

Question No: 6  (Marks: 1)  - Please choose one
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: 7  (Marks: 1)  - Please choose one
The third field of the header consists of ------ bit Ethernet frame type.
► 48
► 32
► 16  (Computer Networks and Internets, page110)
► 8

Question No: 8  (Marks: 1)  - Please choose one
An ---------method, the network hardware designers specify how type information is included in the frame and the value used to identify various frame types.
► Explicit frame type  (Page 35)
► Ideal frame type
► Implicit frame type
► None of the given

Question No: 9  (Marks: 1)  - Please choose one
Local Talk is a LAN technology that employs ----------
► Star topology
► Bus topology  (Page 30)  
► Ring topology
► None of the given
Question No: 10 (Marks: 1) - Please choose one
The Fast Ethernet hardware operates at a rate of -------
► 10 Mbps
► **100 Mbps** (Page 27)
► 1000 Mbps
► None of the given

Question No: 11 (Marks: 1) - Please choose one
------- 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) rep
► Checksums
► CRC
► None of given

Question No: 12 (Marks: 1) - Please choose one
Computer networks are often called ---------- because they use packet technology.
► Ethernet
► Switch networks
► **Packet networks** (Computer Networks and Internets, page 73) rep
► None of the given

Question No: 13 (Marks: 1) - Please choose one
------- Program sends a message to a remote computer and reports whether the computer responds.
► Ping (Computer Networks and Internets, page 9) rep
► Traceroute
► ICMP
► Non of the given

Question No: 14 (Marks: 1) - Please choose one
In ----------, network occupies larger areas like cities & countries.
► LAN
► **WAN** (Page 4)
► MAN
► None of the given

Question No: 15 (Marks: 1) - Please choose one
In -----------, network occupies the smaller area like a room a floor or a building
► **LAN** (Page 4)
► WAN
► MAN
► None of the given
Question No: 16 (Marks: 1) - Please choose one
In Point-to-Point topology there are two topologies.
- Tree and Ring
- Star and Ring
- **Star and Tree** (Page 5)
- None of the given

---

CS610- Computer Network
MIDTERM EXAMINATION
Fall 2008

---

Question No: 1 (Marks: 1) - Please choose one
________ has a jitter zero
- None of the given
- Virtual Private Network
- Isochronous Network
- **Asynchronous Network** (Page 66)

---

Question No: 2 (Marks: 1) - Please choose one
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: 3 (Marks: 1) - Please choose one
ATM assigns each VC a ____________ identifier that is divided two parts to produce a hierarchy.
- 21-bit
- 22-bit
- 23-bit
- **24-bit** (Page 67)
Question No: 4 (Marks: 1) - Please choose one
Most WAN systems include a mechanism that can be used to eliminate the common case of duplication routing is called___________

► Hierarchal address
► Default route (Computer Networks and Internets, page172)
► Shortest path
► None of the given

Question No: 5 (Marks: 1) - Please choose one
The next hop to which a packet is sent depends only on

► Packet’s destination (Computer Networks and Internets, page169)
► Packet’s original source
► Path the packet has taken
► Non of the given

Question No: 6 (Marks: 1) - Please choose one
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) rep
► RJ-45, 10 Base 5
► BNC, 10 Base 2
► BNC, 10 Base T

Question No: 7 (Marks: 1) - Please choose one
When an application---------------- data, it makes a copy of the data available to all other computers on the network.

► Broadcasting Click here for Detail
► Multicasting
► Unicasting
► None of the given

Question No: 8 (Marks: 1) - Please choose one
A ---------- provide a mechanism that a customer can use to set a physical address.

► Static addressing scheme
► Configurable addressing scheme (Page 34)
► Dynamic addressing scheme
► None of the given
Question No: 9 (Marks: 1) - Please choose one
FDDI can transmit data at a rate of -----
► 100 million bits per second (Page 314) rep
► 100 million bits per second
► 100 million bits per second
► None of the given

Question No: 10 (Marks: 1) - Please choose one
Computers attached to an ether use ----- in which a computer waits for the ether to be idle before transmitting a frame.
► CSMA/CD (Computer Networks and Internets, page 93) rep
► CSMA/CA
► TOKEN PASSING
► None of the given

Question No: 11 (Marks: 1) - Please choose one
------------------ have advantages arisen from the size and ease of computation.
► CRC
► Parity (Page 19) rep
► Checksums
► None of given

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

Question No: 13 (Marks: 1) - Please choose one
-------- has no way to determine the cause of the problem.
► Ping (Computer Networks and Internets, page 11) rep
► Trace route
► ICMP
► Non of the given
Question No: 14 (Marks: 1) - Please choose one
----- Program sends a message to a remote computer and reports whether the computer responds.
► Ping  (Computer Networks and Internets, page 9) rep
► Traceroute
► ICMP
► Non of the given

Question No: 15 (Marks: 1) - Please choose one
In ------------, network occupies the smaller area like a room a floor or a building
► LAN  (Page 4) rep
► WAN
► MAN
► None of the given

Question No: 16 (Marks: 1) - Please choose one
No error detection scheme is perfect because transmission errors can affect the additional information as well as the data.
► True  (Computer Networks and Internets, page 82)
► False

Helping Material
Cs610- Computer Networks By Hammad Khalid Khan
Computer Networks and Internets with Internet Applications, 4/e (With CD) By Comer