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## CS610-Computer Network MIDTERM PASTS PAPER SOLVED by: JUNAID MALIK

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1. In Cyclic Redundancy Checking, CRC is \_\_\_\_\_.
  - a. Divisor
  - b. Quotient
  - c. Remainder page 20**
  - d. Dividend
2. 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
3. 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**
4. The process of forwarding a packet is called \_\_\_\_\_.  
**a. Routing page 58**
  - b. Processing
  - c. Hierarchical Addressing
  - d. Source Addressing
4. Which statement is correct about Network Interface Card (NIC)?
  - I. NIC contains sufficient hardware to process data independent of system CPU
  - II. NIC looks like any other I/O device to system CPU
  - III. NIC also receives interrupt on incoming data.
  - a. I and II
  - b. II and III
  - c. I and III
  - d. All of the given options page 40**

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5. 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
6. The switch that has no attached computers is called \_\_\_\_\_.
- a. Packet Switch
  - b. Exterior Switch
  - c. **Interior Switch** page 59
  - d. External Switch
7. \_\_\_\_\_ is the most popular wiring scheme because of lowest cost.
- a. 5 Base T
  - b. **10 Base T** page 43
  - c. 100 base T
  - d. 1000 base T
8. In \_\_\_\_\_ technique, all members of the network can send data only on the specific time slot?
- a. CDMA
  - b. FDMA
  - c. **CSMA** page 43
  - d. TDMA
9. If a sender with a 100 Megabit NIC and receiver with 10 Megabit NIC wants to communicate with each other at which speed they can communicate?
- a. **100 Megabit** page 40
  - b. 110 Megabit
  - c. 1000 Megabit
  - d. 10 Megabit
9. Missing \_\_\_\_\_ in a frame format indicates receiving computer missed beginning of the message.
- a. eot
  - b. **soh** page 16
  - c. sot
  - d. eoh
10. The \_\_\_\_\_ of errors is easier than the \_\_\_\_\_ of errors.
- a. correction; detection
  - b. **detection; correction** cs601 handouts
  - c. correction; creation
  - d. detection; manipulation

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10. The \_\_\_\_\_ of errors is difficult than the \_\_\_\_\_ of errors.
- a. correction; detection **google**
  - b. detection; correction
  - c. correction; creation
  - d. detection; manipulation
11. Source Independence phenomenon allows fast and efficient \_\_\_\_\_.
- a. Source Addressing
  - b. Routing
  - c. Packet Switching **page 58**
  - d. Store and forward
12. In distributed route computation process each packet switch computes its routing table locally and sends messages to the \_\_\_\_\_.
- a. Router
  - b. Graph
  - c. Neighbors **page 63**
  - d. WAN
13. 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
14. CBR stands for \_\_\_\_\_.
- a. Constant Byte Rate
  - b. Constant Bit Rate
  - c. Connection break Recovery
  - d. Constant Borrow Rate
15. 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
16. If simultaneous transmission occurs, the frames interfere with each other and this phenomenon is called \_\_\_\_\_.
- a. packet loss
  - b. collision **page 28**
  - c. delayed transmission
  - d. coordination



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16. In \_\_\_\_\_ all computers are attached to a central hub
- a. Ring topology
  - b. Star topology** page 31
  - c. Hub topology
  - d. Bus topology
17. 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
18. The fastest Ethernet hardware operates at a rate of \_\_\_\_\_
- a. 1000 bps
  - b. 100 Mbps** page 27
  - c. 10 Mbps
  - d. 1000 Mbps
18. 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
19. ATM offers \_\_\_\_\_ speed and \_\_\_\_\_ delay
- a. High, High
  - b. High, low** page 72
  - c. Low, low
  - d. Low, high
20. Thick Ethernet is known as \_\_\_\_\_
- a. 10 Base 2
  - b. 10 Base 5** google
  - c. 10 Base T
  - d. 10 Base 10
21. Both interior and exterior switches \_\_\_\_\_ packet and they also need routing tables.
- a. Create
  - b. Delay
  - c. Forward** page 59
  - d. Start

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22. \_\_\_\_\_ is the rate at which data can be sent through the network
- a. **Throughput** page 79
  - b. Propagation delay
  - c. Access delay
  - d. Switching delay
23. In a ping command, small –sized information packets of \_\_\_\_\_ are sent.
- a. TCP
  - b. UDP
  - c. **ICMP** page 11
  - d. IGMP
24. Many WANs use \_\_\_\_\_ addressing of efficiency
- a. Sequence
  - b. Forward
  - c. **Hierarchical** page 56
  - d. Sequential
25. Which of the following is not a function of ping commends?
- a. Local computer network issue
  - b. Congestion in the network
  - c. **Relay nodes** page 11
  - d. Remote host availability
26. Packet switched can be linked together to form a \_\_\_\_\_
- a. LAN
  - b. **WAN** page 56
  - c. Bridge
  - d. None of the given option
27. Fixed network is a type of network which is classified with repect to the \_\_\_\_\_ factor
- a. Size
  - b. Connectivity
  - c. Medium
  - d. **Mobility** page 6
28. Parity bit can detect \_\_\_\_\_ error(s)
- a. 4
  - b. 3
  - c. **2** page 19 (even or odd)
  - d. 1

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29. When we will try to connect to the internet which of the following protocol will be used?
- a. Telnet
  - b. TCP/IP** page 84
  - c. ICMP
  - d. IPx
30. How many computers are mandatory to form a network?
- a. 1
  - b. 2** google
  - c. 4
  - d. 8
31. \_\_\_\_\_ 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
32. LAN interface hardware obeys \_\_\_\_\_ access rule.
- a. CSMA/CD** page 34
  - b. Round robin
  - c. First come first served
  - d. High priority
33. The most important task a bridge performs is \_\_\_\_\_.
- a. Packet switching
  - b. Line controlling
  - c. Noise controlling
  - d. Frame filtering** page 50
34. ATM uses small, fixed-sized packets called cells and each cell has \_\_\_\_\_ octets.
- a. 47
  - b. 52
  - c. 53** page 66
  - d. 55
36. \_\_\_\_\_ can't be guaranteed with variable length packets as easily as it can with fixed length cells.
- a. Errors
  - b. Noise
  - c. Quality of Service** page 72
  - d. None of the given

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37. Which multiplexing technique transmits digital signals?

- a. WDM
- b. FDM
- c. TDM
- d. GSM

page 15

38. Connections in Asynchronous transfer mode are called \_\_\_\_\_.

- a. Virtual channels
- b. Virtual Path Identifier
- c. Cells
- d. Cell tax

page 67

39. A \_\_\_\_\_ is a device that combines multiple signals and forwards into a single line.

- a. Modem
- b. Multiplexer
- c. Repeater
- d. Layer 3 Switch

page 41

40. \_\_\_\_\_ is inflexible.

- a. Routing
- b. Searching
- c. Processing
- d. Static routing

page 62

41. If a hub is used to connect many computers in a LAN, then only \_\_\_\_\_ computers can communicate at a given time.

- a. Three
- b. Two
- c. Four
- d. One

page 54

42. \_\_\_\_\_ is the term used for variance in transmission delays.

- a. Friction
- b. Segment
- c. Checksum
- d. Jitter

page 66

43. \_\_\_\_\_ is also called self healing network.

- a. ATM
- b. FDDI
- c. Token Ring
- d. Frame relay

page 46



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44. \_\_\_\_\_ and \_\_\_\_\_ are the two frame types.
- a. Internal and external
  - b. Single and dual
  - c. Implicit and explicit
  - d. Multicast and broadcast** page 35
45. Bluetooth uses shared medium and \_\_\_\_\_ instead of coaxial cable.
- a. Radio waves** page 29
  - b. Infrared waves
  - c. Micro waves
  - d. Low frequency waves
46. Which of the following is not a guided medium?
- a. Twisted-pair cable
  - b. Fiber-optic cable
  - c. Atmosphere** google
  - d. Coaxial cable
47. 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
48. Asynchronous transfer mode (ATM) can dynamically establish a \_\_\_\_\_.
- a. Switched virtual circuit** page 70
  - b. Virtual connection identifier
  - c. Virtual path indicator
  - d. None of the given options
49. A typical port on an ATM switch operates at \_\_\_\_\_ or \_\_\_\_\_ higher.
- a. OC-2 speed (155Gbps)
  - b. OC-2 speed (1000Mbps)
  - c. OC-3 speed (155Mbps)** page 72
  - d. OC-3 speed (100Gbps)
50. 10Base-T Ethernet is often called a \_\_\_\_\_.
- a. ring shaped star
  - b. ring shaped bus
  - c. star shaped bus** page 46
  - d. star shaped ring

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51. \_\_\_\_\_ allows automatic updates.
- a. **Dynamic routing** page 62
  - b. Static routing
  - c. Routing
  - d. Default routing
52. Handling variable length packets leads to memory \_\_\_\_\_.
- a. **Fragmentation** page 72
  - b. Management
  - c. Location
  - d. Allocation
53. In order to forward a copy of frame, the bridge uses \_\_\_\_\_ address.
- a. Network
  - b. **Destination** page 51
  - c. IP
  - d. Source
54. We may use \_\_\_\_\_ to extend local area network.
- a. Bridge, Router
  - b. Bridge, Hub, Router
  - c. **Bridge, Hub, Repeater** page 149
  - d. Bridge, Hub, Repeater, Router
53. All of the given options are the types of delay except \_\_\_\_\_.
- a. Propagation
  - b. Access
  - c. **Throughput** page 79
  - d. Queuing
54. While computing shortest path in a graph, next hop information is inserted into \_\_\_\_\_.
- a. **Routing table** page 62
  - b. Trailer
  - c. Header
  - d. Register
55. LAN interface uses \_\_\_\_\_ to copy frame data directly from main memory
- a. **DMA** page 34
  - b. FDDI
  - c. Hard disk
  - d. Flash

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56. 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
57. In the early resource sharing era, which resources were shared among users?
- a. Computation** page 9
  - b. Floppy Drives
  - c. Hard Disk
  - d. Printers
58. If two buildings are located far from each other then bridge, and \_\_\_\_\_ can be used to connect two LAN.
- a. Optical fiber** page 51
  - b. Ethernet modem
  - c. Switch
  - d. NIC
59. Which type of network consists of wireless connection of laptops in a university classroom?
- a. WAN
  - b. MAN
  - c. Fog
  - d. LAN** google
60. A typical bridge has \_\_\_\_\_.
- a. One NIC, a CPU a memory and a ROM.
  - b. Two NICs, a CPU a memory and a ROM.** page 50
  - c. RAM, ROM and CPU.
  - d. A cache memory, ROM and CPU.
61. \_\_\_\_\_ is used for compressed audio and video, where the data rate depends on the level of compression that can be achieved.
- a. Constant Bit Rate
  - b. Stable Bit Rate
  - c. Variable Bit Rate** page 71
  - d. Available Bit Rate
62. There are \_\_\_\_\_ types of data stuffing.
- a. 1
  - b. 2** page 17
  - c. 0
  - d. 5

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63. Dijkstra's algorithm can accommodate weights on \_\_\_\_\_ in graph.
- a. Nodes page62
  - b. Edges
  - c. Path
  - d. Connections
64. \_\_\_\_\_ masks your IP address.
- a. Firewall
  - b. Antivirus
  - c. VPN
  - d. Incognito mode
65. Static routing computes routing table information at \_\_\_\_\_ time.
- a. Load
  - b. Boot page 62
  - c. Execute
  - d. One
66. \_\_\_\_\_ 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
67. 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
68. Computer sends a connection request to the \_\_\_\_\_ to which it is attached while establishing a switched virtual circuit
- a. Bridge
  - b. Switch page 70
  - c. VPI
  - d. Virtual circuit
69. The bridges communicate with each other on the network and use \_\_\_\_\_ algorithm to decide which bridge will not forward frames if a cycle occurs.
- a. Dijkstra
  - b. Shortest path first
  - c. Vector distance
  - d. Distributed Spanning Tree page 53

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70. 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
71. Weights on graph edges reflect cost of \_\_\_\_\_.
- a. Nodes
  - b. Traversing edge** page 63
  - c. Trending edge
  - d. Path
72. 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
73. In \_\_\_\_\_ topology, if the switch goes down all the computers will be disconnected.
- a. Star**
  - b. Ring
  - c. Bus
  - d. Mesh
74. Which type of network consists of wired computers in a university classroom?
- a. MAN
  - b. PAN
  - c. WAN
  - d. LAN**
75. 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
76. Hardware address is also called \_\_\_\_\_.
- a. Physical address**
  - b. Logical address
  - c. IP address
  - d. Port address



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77. Thick Ethernet also requires \_\_\_\_\_ to avoid signal reflectance.
- Transceivers
  - AUI cable
  - Drop cable
  - Terminators** page 41
78. Which of the following network is using the TCP/IP model globally?
- PAN
  - SAN
  - LAN
  - The Internet**
79. VPNs connections are sometimes called \_\_\_\_\_.
- Tunnels** page 75
  - Open networking
  - Routing
  - Public network
80. To reduce \_\_\_\_\_ computers can be connected and distributed to a number of hubs, then the hubs can be connected to a switch.
- Costs** page 54
  - Quality
  - Efficiency
  - Noise
81. If a \_\_\_\_\_ is used the communication between two computers will not affect the other pair of computers and they can communicate at the same time
- Hub
  - Switch** page 54
  - Repeater
  - Amplifier
82. The length of hardware address is \_\_\_\_\_.
- One to ten bytes
  - One to five bytes
  - One to six bytes** page 34
  - One to seven bytes
83. A network analyzer is also called \_\_\_\_\_.
- Network manager
  - Network administrator
  - Network monitor** page 37
  - Network

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84. 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

85. The token ring network topology is a ring but wiring topology is a \_\_\_\_\_.

- a. Star** page 44
- b. bus
- c. tree
- d. mesh

86. \_\_\_\_\_ addresses are used in an ethernet frame.

- a. IP** page 99
- b. Port
- c. Logical
- d. MAC

87. AUI cable connects from NIC to \_\_\_\_\_.

- a. BNC Connector
- b. RJ-45 Connector
- c. Transceiver** page 41
- d. Terminator

88. Public networks are \_\_\_\_\_.

- a. More secure than LAN
- b. Flexible** page 74
- c. Limited in boundary
- d. Intranet

89. The maximum cable length of a LAN is fixed because \_\_\_\_\_.

- a. Additional hardware are not suitable for the LAN extension.
- b. The electrical signal level gets weaker as it travels.** Page 48
- c. Additional software are not suitable for the LAN extension
- d. The electrical signal level gets stronger as it travels.

90. In \_\_\_\_\_ network topology is separated from route computation.

- a. Local area
- b. Link-state routing** page 64
- c. Static routing
- d. Dynamic routing

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91. Which layer of the OSI Model directly communicates and controls the transmission medium:
- Transmission
  - Physical**
  - Application
  - Network
92. 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.
- CRC
  - Bit stuffing
  - Checksum** page 19
  - 2D Parity
93. A network with \_\_\_\_\_ jitter takes more time to deliver some packets than others.
- Zero
  - High** page 80
  - Low
  - Moderate
94. A network uses \_\_\_\_\_ to arrange computers in a single closed loop.
- Star Topology
  - Mesh Topology
  - Ring Topology** page 25
  - Bus Topology
95. Which of the following tasks is not done by the second layer of the OSI model?
- Flow control
  - Framing
  - Channel coding** google
  - Error control
96. ATM is a single technology designed to meet the goals of both \_\_\_\_\_ and \_\_\_\_\_.
- LAN & PAN
  - LAN & WAN** page 66
  - LAN & MAN
  - MAN & WAN
97. LAN and WAN are classified according to their \_\_\_\_\_.
- Size** page 4
  - Connectivity
  - Medium
  - Mobility

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98. 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

99. 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.  $N(N-1)$

100. Which of the following is the correct function of bridge?

- a. MTU path discovery
- b. Byte stuffing
- c. Routing information
- d. Filtering and forwarding a frame page 50, 51

Point to point topology is

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

101. 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. 64octets

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

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

103. What is the largest network in existence?

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

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104. 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

105. \_\_\_\_\_ can occur a LANs when a packet is delayed because the network is busy

**a. Jitter** page 66

- b. Loop
- c. Deadlock
- d. variance

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

- a. Repeaters
- b. Switches
- c. Routers

**d. Fiber modems**

107. Links-state algorithm is used in \_\_\_\_\_

- RIP
- IGRP
- RIPv2

**OSPF** page 64

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

**a. 2** page 2

- b. 3
- c. 4
- d. 5

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

a. Star

**b. Bus**

c. Ring

d. Mesh

109. 1Switch simulates a \_\_\_\_\_ LAN connecting segments

- e. Single
- f. Single shared

c. Bridged

d. Complex

page 54

110. 1PVS stands for \_\_\_\_\_

**a. Permanent virtual circuit**

page 69

b. Private virtual circuit

c. Public virtual circuit



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- d. Plastic virtual circuit
111. 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
112. Thin ethernet is known as \_\_\_\_\_
- a. 10 base 2** google
  - b. 10 base 5
  - c. 10 base T
  - d. All of the above
113. 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
  - b. 100 Megabit**
  - c. 1 Gigabit
  - d. 1.1 Gigabit
114. \_\_\_\_\_ is used as an alternative of packet for a specific computer network technology
- e. Datum
  - f. Token
  - g. Ether
  - d. Frame** page 14
115. The sharing of a medium and its link by two or more devices is called \_\_\_\_\_
- a. Modulation
  - b. Encoding
  - c. Multiplexing**
  - d. Line discipline
116. 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
117. Asynchronous transfer mode (ATM) is designed to work on fiber but can be used with \_\_\_\_\_
- a. wireless
  - b. Twisted pair** page 72
  - c. Wifi
  - d. Bluetooth

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118. 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
119. 1Frame relay is \_\_\_\_\_
- a. Connection oriented service **page 64**
  - b. Connectionless service
  - c. Typically ranges for 5 Mbps to 1000Mbps
  - d. Call based
120. The length of time required to send a variable length packet is \_\_\_\_\_
- a. 5 second
  - b. Variable **page 72**
  - c. Constant
  - d. Fix
121. ABR stands for \_\_\_\_\_
- a. Asynchronous bit rate
  - b. Asynchronous byte recovery
  - c. Asynchronous bit redundancy
  - d. Available bit rate **page 71**
122. 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
123. The Ethernet standard specifies that frames are sent using the \_\_\_\_\_ scheme.
- a. Differential Manchester
  - b. Not Return to Zero (NR2)
  - c. Manchester Encoding **page 27**
  - d. Return to Zero (RZ)
124. ATM uses the concept of \_\_\_\_\_.
- a. Connection-oriented **page 66**
  - b. Connection-less
  - c. variable packet size
  - d. Fixed and variable packet size

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

- a. Quick to configure
- b. Security implementation**
- c. Cost
- d. Less availability

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

- e. Hub
- f. Fiber modem**
- g. Repeater
- h. Bridge

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

- i. Remote access VPNs
- j. Peer-to-peer VPNs
- k. Country-to-country VPNs
- d. Site-to-site VPNs**      **google**

127. Star topology is the kind of

- Tree topology
- b. Point-to-point topology**      **page 05**
- Broadcast topology
- Ring topology

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

- Ready
- Steady**
- Final
- Startup

128. The network occupies larger areas like cities & countries is called

- LAN
- WAN**
- MAN
- All of the above

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

- Bridges
- Switches**
- Routers
- Hubs

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130. Transmission media are usually categorized as \_\_\_\_\_.  
 Guided or unguided  
 Fixed or unfixed  
 Determinate or indeterminate  
 Metallic or nonmetallic
131. Even parity can be used to check for \_\_\_\_\_ bit/ bits of errors.  
 a. 1 page 18  
 2  
 3  
 0
132. Routing table entries can be \_\_\_\_\_ with a default route.  
 Collapsed  
 Redirected  
 Emerged  
 Guaranteed
133. The system administrator must coordinate to avoid the conflict in \_\_\_\_\_ hardware addressing scheme.  
a. Static  
b. Dynamic  
 c. Configurable  
d. Fixed
134. \_\_\_\_\_ network does not depend on CSMA/CD.  
 Ethernet  
 Fast Ethernet  
 Gigabit Ethernet  
 Wireless
135. 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
136. Connections are formed in Asynchronous transfer mode by starting values in \_\_\_\_\_ in ATM switches, as opposed to making actual electrical connections.  
 Heap  
 Stack  
 Virtual Circuit  
 d. Memory locations page 67

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

**b. Dynamic** page 34

c. Configurable

d. Fixed

138. Metropolitan area network is used for \_\_\_\_\_.

**a. City** page 55

b. Building

c. Country

d. Continent

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

**a. IP** google

Physical

Port

Protocol

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

a. Mouse

**b. Printer** page 9

c. Keyboard

d. Motherboard

140. ATM uses fixed size, small cells, 48 octet's data and \_\_\_\_\_.

a. 3 Octets header

**b. 5 Octets header** page 65

c. 6 Octets header

d. 7 Octets header

141. Which of the followings is not an advantage of framing?

a. Missing eot indicates sending computer crashed

b. Missing soh indicates receiving computer missed beginning of message

**c. Delimiters do not contain any user data** page 16

d. Bad frame is discarded

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

**a. Preamble** page 36

b. Frame Type

c. Data

d. CRC

Q1: Internet Standards Specifies that any two stations cannot be separated by more than \_\_\_\_\_ Repeaters.



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A) Three

**B) Four (100% Sure)**

C) Five

D) Six

Q2: A typical port on an ATM switch operates at \_\_\_\_\_ or higher.

A) OC-2 speed (155Gbps)

B) OC-2 speed (1000Mbps)

**C) OC-3 speed (155Mbps) (100% Sure)**

D) OC-3 speed (100Gbps)

Q3: Ethernet uses a \_\_\_\_\_ bit static addressing scheme in which each device is assigned a unique address by the manufacturer.

A) 64

**B) 48 (100% Sure)**

C) 32

D) 8

Q4: Which one is incorrect statement?

A) Hub wiring centralizes electronics and connections. It makes management easier.

**B) No Transceiver allows computer to be powered off or disconnected from network without distracting other communication. (100% Sure)**

C) Transceiver may be located in an inconvenient place in any situation

D) None of these

Q5: ATM is also called \_\_\_\_\_.

A) Label rewriting

B) Label switching system

C) label rewriting and label switching system

**D) All of above (100% Sure)**

Q6: The most important task a bridge performs is \_\_\_\_\_.

A) Packet switching

B) Line controlling

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C) Noise controlling

**D) Frame filtering (100% Sure)**

Q7: Which of the following statement is true regarding Jitter?

A) Jitter is used for variance in transmission delays.

B) Jitter can occur when a packet is delayed.

C) Jitter is significance for voice, video and data

**D) All of the above (100% Sure)**

Q8: Which of the following is a benifit of source independence?

A) It allows fast and efficient routing

B) Packet switch do not need to have complete information about all destinations

C) Network functions even if topology changes

**D) All of the above (100% Sure)**

Q9: The term signaling is used to describe \_\_\_\_\_.

A) Communication about the internet

B) Communication about the extranet

**C) Communication about the network (100% Sure)**

D) None of above

Question No: 1

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

**▶ True**

▶ False

Question No: 2

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

**▶ Ping**

▶ Traceroute

▶ ICMP

▶ Non of the given

Question No: 3 ----- was especially concerned about the lack of high powered computers.

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

- ▶ IEEE
- ▶ EIA
- ▶ Non of the given

### Question No: 4

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

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

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

- ▶ CRC

## ▶ Parity (Page 19)

- ▶ Checksums
- ▶ None of given

### Question No: 7

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

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

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## Question No: 9

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

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

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

▶ **Physical (MAC)**

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

## Question No: 12

A Bridge can

- ▶ Filter a frame
- ▶ Forward a frame
- ▶ Extend a LAN

▶ **Do all the above**

## Question No: 13

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**

- ▶ Layer 3 destination address

## Question No: 14

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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

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

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

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

ATM is designed to work on

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

## Question No: 19

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)**



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

## Question No: 20

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

## Question No: 21

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: 22

----- 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: 23

----- 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: 24

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

### ▶ Packet (Page 16)

- ▶ Frame
- ▶ Data

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- ▶ None of the given

## Question No: 25

----- 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: 26

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

### ▶ Bus topology (Page 30)

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

## Question No: 27

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: 28

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

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## Question No: 29

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: 30

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: 31

The maximum size of an Ethernet segment is

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

## Question No: 32

A Bridge can

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

## Question No: 33

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)**

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## Question No: 34

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: 35

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: 36

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: 37

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

- ▶  $T / D$
- ▶  **$T \times D$  (Computer Networks and Internets, page203) rep**
- ▶  $T + D$
- ▶ None of the given

## Question No: 38

One repeater two repeaters the maximum cable length limitation.

- ▶ **doubles, triple (Page 49)**
- ▶ square roots, cube roots

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- ▶ and, triple
- ▶ doubles, cancel

## **Question No: 39**

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: 40**

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)**

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