

AL-Junaid Institute
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LMS Handling

Subject Enrollment

- 1) Online classes available
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Final project CS619

- 1) SRS*
*(Software Requirement's
Specification)*
- 2) DD*
(Design Document)
- 3) Test phase + viva*
- 4) Viva preparation*
- 5) Final Deliverable*

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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 commands?
- 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 respect 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** page 15
 - d. GSM
38. Connections in Asynchronous transfer mode are called _____.
- a. Virtual channels** page 67
 - b. Virtual Path Identifier
 - c. Cells
 - d. Cell tax
39. A _____ is a device that combines multiple signals and forwards into a single line.
- a. Modem
 - b. Multiplexer** page 41
 - c. Repeater
 - d. Layer 3 Switch
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** page 54
 - c. Four
 - d. One
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** page 46
 - d. Frame relay

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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. Ipeonfig
 - 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.
- a. Transceivers
 - b. AUI cable
 - c. Drop cable
 - d. Terminators** page 41
78. Which of the following network is using the TCP/IP model globally?
- a. PAN
 - b. SAN
 - c. LAN
 - d. The Internet**
79. VPNs connections are sometimes called _____.
- a. Tunnels** page 75
 - b. Open networking
 - c. Routing
 - d. 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.
- a. Costs** page 54
 - b. Quality
 - c. Efficiency
 - d. 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
- a. Hub
 - b. Switch** page 54
 - c. Repeater
 - d. Amplifier
82. The length of hardware address is _____.
- a. One to ten bytes
 - b. One to five bytes
 - c. One to six bytes** page 34
 - d. One to seven bytes
83. A network analyzer is also called _____.
- a. Network manager
 - b. Network administrator
 - c. Network monitor** page 37
 - d. 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. 64 octets

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. A switch simulates a _____ LAN connecting segments

e. Single

f. Single shared

c. Bridged

page 54

d. Complex

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