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1.. In _____ Each band is reserved for a specific station, time and it belongs to the station all the time.

- a) **FDMA**
- b) TDMA
- c) CDMA
- d) CSMA

2. The original Ethernet technology with the data rate of 10Mbps is called _____?

- a) **Standard Ethernet**
- b) First Ethernet
- c) C) Gigabit Ethernet
- d) 10 gigabit Ethernet

3. In _____ each station is forced to send a frame only at the beginning of time slot.

- a) Pure Aloha
- b) **slotted Aloha**
- c) Fragmented Aloha
- d) none of the given

4. A personal computer or workstation on an Ethernet network must have _____ card.

- a) TDI
- b) **NIC**
- c) PCI

d) None of the given

5. In the context of Ethernet implementations, maximum medium length of 10 Base F was _____ meters.

- a) 500
- b) 1000
- c) 2000**
- d) 150

6. What was the main drawback in Aloha Random-Access method?

- a) Redundancy in data
- b) inconsistent data rate
- c) potential collision**
- d) all of the given

7. If 7 stations are to be connected in a Mesh topology, the number of full duplexed dedicated links would be:

- A. 26
- B. 21**
- C. 7
- D. 14

8. The fiber optic possess layer of _____ right inside after outer jacket.

- a) Cladding**
- b) Core
- c) Plastic Buffer
- d) DuPont Kevlar

9. digital signal is expressed through _____ values.

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- a) Digital
- b) Analog
- c) Periodic
- d) Discrete**

10. A connecting device _____ in a network

- a) Controls network traffic and facilitates data transfer between devices.**
- b) Provides power supply to network devices.
- c) Manages network security
- d) Determines the type of data transmitted in the network.

11. Routing is the function of _____ layer.

- a) Transport
- b) Datalink
- c) Physical
- d) Network**

12. In baseband transmission, a digital signal is transmitted as _____.

- a) Multiplexed signal
- b) Modulated signal
- c) Analog signal
- d) Digital signal**

13. _____ is the encoded message sent from one station to another when they are connected securely.

- a) Cryptogram
- b) Cipher Text**
- c) Encrypted data
- d) Secure message

14. Which communication mode allows data transmission in one direction only, without any feedback or response from the receiving device?

- a) Bidirectional
- b) Half Duplex
- c) Simplex**
- d) Full Duplex

15. Bandwidth in hertz is the range of _____ contained in a composite signal.

- a) Amplitudes
- b) Phases
- c) Frequencies**
- d) Signals

16. The fiber optic cable of type 7/125 is of _____ mode.

- a) Multimode, graded index
- b) Single mode, graded index
- c) Multimode, step index
- d) Single mode, step index**

17. Coaxial cable carries signals of higher frequency ranges than those in _____ cable.

- a) Television
- b) Twisted pair**
- c) T Lines
- d) Fiber optic

18. Which multiplexing technique involves signals composed of light beams?

- a) TDM
- b) WDM**
- c) FDM
- d) PDM

19. While implementing Binary ASK or On-Off Keying (OOK), the binary number 1 is used for -----.

- a) binary stream of 1s
- b) Numbers of 1s in data
- c) No amplitude
- d) Maintaining the amplitude**

20. In frequency shift keying, _____ remain(s) constant.

- a) Both Amplitude and Phase**
- b) Amplitude
- c) Both Phase and Frequency
- d) Frequency

21. In statistical time division multiplexing, number of slots in frame are less than _____.

- a) Multiplexed T lines
- b) Input frequency
- c) Output data rate
- d) Input lines**

22. PSK is _____ susceptible to noise as compared to ASK.

- a) Equally
- b) More
- c) Highly
- d) Less**

23. Technique that allows the simultaneous transmission of multiple signals across a single data link, is known as _____.

- a) Encryption
- b) Multiplexing**
- c) Compressing
- d) Demodulating

24. Two stations are connected via a secure link in which messages are encrypted from source to the destination. This encrypted message is called _____.

- a) Message
- b) Protocol**
- c) Plain text
- d) Cipher text

25. Taking off the header from the message is called _____.

- a) Stuffing
- b) Layering
- c) Encryption**
- d) Decapsulation

26. _____ is the data format used at Transport layer of TCP/IP Protocol suite.

- a) packet
- b) segment**
- c) bit
- d) frame

27. Mr. Asif while sitting in Lahore is talking with his friend in Dubai through Skype is an example of _____.

- a) Wide Area Network
- b) Local Area Network
- c) Home Based Network
- d) Metropolitan Area Network**

28. The most common type of connector used by coaxial cable is _____.

- a) BNC**
- b) RJ-11
- c) RJ-57
- d) RJ-45

29. MAC address is of _____.

- a) 24 bits
- b) 36 bits
- c) 42 bits
- d) 48 bits**

30. Collisions in CSMA/CA are avoided through _____.

- a) The interframe space
- b) Acknowledgements
- c) The contention window
- d) all of the given**

31. Posts stand for

- a) Plain old telephone set
- b) plain old telephone service**
- c) plain old time sharing
- d) Plain old telephone system

32. In _____ each station stands a frame whenever it has a frame to send.

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a) Pure ALOHA

- b) slotted ALOHA
- c) Fragmented ALOHA
- d) none of the given

33. In CSMA/CA, _____ is the amount of time divided into slots.

a) Contention window

- b) interframe window
- c) fragmented window
- d) collided window

34. In which controlled-access method all data exchanges must be made through primary devices even when the ultimate destination is a secondary device?

- a) Reservation
- b) polling**
- c) Port forwarding
- d) token passing

35. Which of the following is a Random-Access protocol?

- a) CDMA/CA
- b) ALOHA**
- c) CDMA/CD
- d) TDMA

36. Transmission technology second(based on Ethernet) provides a data rate of 1 billion bits per second.

- a) 10Base-T Ethernet
- b) standard ethernet
- c) Fast Ethernet
- d) Gigabit Ethernet**

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37. In Ethernet the source address field in the MAC frame is the _____ address.

- a) Sender's logical
- b) Previous station's physical**
- c) Next destination's physical
- d) sender's service port

38. In telephone network POP stand for _____?

- a) Pride Of Place
- b) Point Of Presence**
- c) Post order protocol
- d) Proof Of Purchase

39. _____ use fiber optic cable.

- a) 10Base 5
- b) 10Base2
- c) 10Base-T
- d) 10BBBase-F2**

40. In _____ a station monitors the medium after it sends a frame to see if the transmission is successful.

- a) CSMA/CD**
- b) CSMA/CA
- c) CSMA
- d) None of the given

41. In Hexadecimal notation of Ethernet address, each byte is separated by _____ symbol .

- a) Question mark

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b) Colon

c) Underscore

d) Hash

42. In _____ collision are avoided by differing transmission even if the channel is idle.

a) slotted frame

b) The deployment frame

c) The contention window

d) The interframe space

43. DSL stand for _____

a) digital subscribers line

b) digital switched line

c) data subscribers line

d) data switched line

44. WDM stands for _____.

a) Worst Data Manipulation

b) Wideband De-Modulation

c) Wideband Division Multiplexing

d) Wavelength Division Multiplexing

45. Voltage controlled oscillator(VCO) generates _____ .

a) Carrier Signals

b) Periodic signals

c) Signal elements

d) Composite Signals



46. A virtual-circuit network operates on _____ layer.

- a) Network
- b) Physical
- c) Datalink
- d) Application

47. Top most organization that provides support for the Internet Standard process is called _____.

- a) Internet Society (ISOC)
- b) Internet Architecture Board (IAB)
- c) IETF
- d) IRTF

48. In pulse code modulation the term sampling can also be referred as _____.

- a) Pulse Amplitude Modulation
- b) Pulse sample Modulation
- c) Pulse line modulation
- d) Pulse Frequency Modulation

49. Unit of phase is _____.

- a) Watts
- b) Bauds
- c) Degree
- d) Bits per second

50. Entire band in United States is regulated by _____ authorities.

- a) ITU
- b) FCC

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- c) ANSI
- d) NASA

51. In TDM based digital hierarchy used by the Telephone companies, DS-0 is a single digital channel of

- a) 64 kbps**
- b) 32 kbps
- c) 128 kbps
- d) 1.544 Mbps

52. In circuit switched networks we have low efficiency but minimal _____.

- a) Delay**
- b) Error
- c) Speed
- d) Throughput

53. In transmission impairments _____ noise occurs from the random motion of electrons in a wire.

- a) Thermal noise**
- b) Impulse noise
- c) Cross talk
- d) Induced noise

54. Which of the following is not a characteristic of a sine wave?

- a) Amplitude
- b) Segmentation**
- c) Phase
- d) Frequency

55. In a computer network, five stations are connected to each other in such a way that each station is connected to every other station through dedicated links. This makes _____ topology.

- a) Bus
- b) Ring
- c) Star
- d) Mesh**

56. _____ can be published using Request for Comments (RFCs).

- a) Proposed Standard
- b) Draft Standard
- c) Internet Draft**
- d) Internet Standard

57. QPSK stands for _____.

- a) Quality phase shift key
- b) Queuing phase shift key
- c) Quadrature phase shift key**
- d) Quality physical shift key

58. In _____, the instantaneous change in the carrier frequency is proportional to the derivative of the amplitude of the modulating signal.

- a) Phase modulation
- b) Frequency modulation**
- c) Amplitude modulation
- d) Quadrature modulation

59. Bi-polar uses _____ voltage levels.

- a) One

b) Two

- c) Three
- d) Four

60. Block coding scheme contains _____ number of steps.

a) 3

- b) 4
- c) 5
- d) 6

61. BFSK stands for _____.

- a) Baud Frequency Shift Key
- b) Binary Frequency Shift Key**
- c) Barrier Frequency Shift Key
- d) Bridge Frequency Shift Key

62. Suppose a signal is amplified then the value of decibel will be _____.

- a) 0
- b) 1
- c) Negative
- d) Positive**

63. In frequency domain plot, which value is replaced with frequency?

- a) Wavelength**
- b) Amplitude
- c) Phase
- d) Time

64. _____ means loss of energy in signal.

- a) Noise
- b) Delay
- c) Attenuation**
- d) Distortion

65. Uni polar, polar and bipolar are the types of _____

- a) Line
- b) Differential Manchester
- c) NRZ-I**
- d) Block

66. _____ signal completes certain pattern in a specific amount of time.

- a) Non-periodic
- b) Periodic**
- c) A Periodic
- d) Wavelength

67. _____ mode of serial transmission guarantees fixed rate data.

- a) Synchronous
- b) Asynchronous
- c) Isochronous**
- d) Metachronous

68. In TCP\IP model, the Physical Layer exchanges data in the form of ____.

- a) Packets
- b) Frames
- c) Bits**
- d) Segments

69. A common Bipolar encoding scheme is called _____.

a) AMI

b) NRZ

c) RZ

d) QAM

70. _____ relatively measures the strength of two signals.

a) Signal rate

b) Bit rate

c) Decibel

d) Pulse rate

71. Two PCs and one printer are connected in a network within a room; it is an example of _____.

a) LAN

b) WAN

c) MAN

d) ALN

72. A local telephone network use _____ network.

a) Line switched

b) Circuit switched

c) Bit switched

d) Packet switched

73. Narrow bands of light in wave division multiplexing are denoted by _____.

a) α

b) β

c) λ

d) π

74. Cellular telephone uses _____ waves for communication.

- a) Radio waves
- b) light wave
- c) infrared waves
- d) microwaves

75. A telephone line analog signal has got the bandwidth of _____.

- a) 8kHz
- b) 4kHz
- c) 16kHz
- d) 12kHz

76. If the message is going to pass through a packet-switched network, it can be divided into packets of ____.

- a) Fixed size
- b) Variable size
- c) Both fix and variable size
- d) None of the these

77. Paging System in data communication uses _____ waves.

- a) Radio waves
- b) light wave
- c) infrared waves
- d) microwaves

78. According to stats, fewer than _____ crossbar points can be used at once.

- a) 14%
- b) 25%
- c) 30%
- d) 100%

79. Virtual Circuit Identifier is the _____ of packet.

- a) Length
- b) Header
- c) Size
- d) Address**

80. In unidirectional antenna, the common point where all the lines intersect each other is ____.

- a) Axis
- b) Focus**
- c) Origin
- d) Center

81. The size of the packet is determined by the network and _____.

- a) Governing Protocol**
- b) Instructions
- c) Switching time
- d) Delay

82. In virtual circuit approach when a frame enters a switch and when it leaves the circuit then its VCI ____

- a) Remain same
- b) Sometimes changes
- c) Remain the same**
- d) Always changes

83. When the bandwidth of a link is greater than the combined bandwidths of the signals, we use _____ multiplexing.

a) Frequency division

- b) Time division
- c) Hybrid division
- d) Wavelength division

84. _____ signals can take infinite levels of intensity over time.

- a) Digital
- b) Discrete
- c) Analog**
- d) Logical

85. During transmission, _____ is the effect of one wire on the other.

- a) Crosstalk**
- b) Induced noise
- c) Thermal noise
- d) Thermal noise

86. _____ is the correct formula to calculate the total number of one system needed to connect in a mesh network.

- a) $N(N+1)$
- b) $N-1$**
- c) $N+1$
- d) $N \times N$

87. Identify the correct formula to calculate propagation time.

- a) propagation time = distance/propagation speed**
- b) propagation time = Bandwidth/propagation speed
- c) propagation time = delay /propagation speed
- d) propagation time = throughput/propagation speed



88. parabolic antenna is used for _____ communication.

- a) **micro wave**
- b) light wave
- c) infrared wave
- d) radio wave

89. In _____ topology each computer is attached with other through a central device

- a) **Star**
- b) mesh
- c) bus
- d) Ring

90. In optical fiber a glass or a plastic core is surrounded by a _____.

- a) insulator
- b) outer conductor shield
- c) **Cladding**
- d) inner conductor shield

91. The address of transport layer are in the form of _____.

- a) Logical address
- b) name
- c) **port numbers**
- d) link layer address

92. In bidirectional communication each layer perform two _____ tasks in each direction.

- a) **opposite**
- b) similar

- c) identical
- d) complimentary

93. AMI is a popular _____ encoding method.

- a) Polar
- b) Bi-polar**
- c) Unipolar
- d) Substitution

94. In pulse code modulation the term sampling can also be referred as _____.

- a) Pulse amplitude modulation**
- b) pulse line modulation
- c) pulse frequency modulation
- d) pulse sampling modulation

95. A local telephone network use _____ network .

- a) Line switched
- b) bit switched
- c) circuit switched**
- d) packet switched

96. _____ has less magnetic interface as compared to other guided medium.

- a) Unshielded twisted pair
- b) Shielded twisted pair
- c) Fiber optic**
- d) Coaxial

97. In statistical time division multiplexing, number of slots in frame are less than _____

- a) output data rate
- b) input lines**
- c) input frequency
- d) multiplexed T lines

98. If a digital signal has 'L' number of levels _____ is the number of bits required to represent each level.

- a) log L
- b) Log Base 2 L**
- c) L square
- d) Log (2*L)

99. In frequency domain plot, which value is plot on Y axis.

- a) time
- b) frequency
- c) amplitude**
- d) wavelength

100. Most commonly used connector for twisted pair cable is_____.

- a) RJ-11
- b) RJ-45**
- c) RJ-54
- d) RJ-44

101. In pulse code modulation technique technique, which approach will be the most appropriate for sampling _____

- a) over sampling
- b) under sampling
- c) Nyquist sampling**
- d) Analog sampling

102. Which of the following techniques is use for analog to digital conversion?

- a) PCM
- b) DM
- c) both PCM and DM**
- d) BDM

103. _____ category of coaxial cable is used for thin Ethernet.

- a) RG-58**
- b) RG-59
- c) RG-40
- d) RG-1

104. The most upper layer of TCP/IP protocol suite is the _____.

- a) application**
- b) transport
- c) network
- d) data link

105. Bandwidth can be measured in _____.

- a) Bps**
- b) phase
- c) lambda
- d) decibel

106. Manchester encoding scheme achieves the same level of synchronization as

_____.

- a) RZ**
- b) differential Manchester

- c) NRZ-1
- d) NRZ

107. The size of the packet is determined by network and _____.

- a) govern time**
- b) instructions
- c) switching time
- d) delay

108. There is layer to layer connection between every peer station, this imaginary connection between each layer is termed as _____.

- a) Logical connection**
- b) Physical connection
- c) Practical connection
- d) None of the given

109. Which multiplexing technique involves signals composed of light beam?

- a) FDM
- b) TDM
- c) WDM**
- d) PDM

110. Which one of following is a scrambling coding technique?

- a) B8ZS**
- b) B8SZ
- c) B08SZ
- d) BZ8S

111. Coaxial cables are categorized by their _____ ratings.

a) Radio Government (RG)

- b) Frequency modulation (FM)
- c) Amplitude modulation (AM)
- d) Electronic Industries Association (EIA)

112. $N=SxT$ is the formula for finding _____ .?

- a) Bit rate
- b) Baud rate**
- c) Data element
- d) Signal element

113. Virtual-Circuit Networks and datagram networks are the sub categories of _____.

- a) Packet-switched networks**
- b) Circuit Switched Networks
- c) Message switched networks
- d) Both circuit and message switched networks

114. _____ has less electromagnetic interference as compared to other guided medium.

- a) Coaxial
- b) Fiber Optic
- c) Shielded Twisted Pair**
- d) Unshielded Twisted Pair

115. In ASK correct formula for calculating the bandwidth is as _____.

- a) $B=(1+d)S$**
- b) $B=(1*d)S$
- c) $B=(d-1)S$

d) $B=(d-5)S$

116. RG-11 having impedance of 50 Ohm is used in _____ Ethernet.

a) Thin

b) Fast

c) Thick

d) None of these

117. YMODEM has _____ Byte of data unit.

a) 1024

b) 2410

c) 2210

d) 1042

118. For a noiseless channel, theoretical formula to calculate the data rate was developed by _____.

a) Rivets

b) Nyquist Google

c) Shannon

d) Hamming

119. In _____ transmission mode(s), multiple bits are sent simultaneously.

a) Serial

b) Parallel

c) Sequential

d) In Serial and Parallel

120. The Full form of AMI encoding scheme is _____.

a) Alternate state inversion

b) Alternate mark inversion

- c) Alternate multiple inversion
- d) Alternate multilevel inversion

121. In circuit switching, when two end devices “A” and “B” connects with each other they send _____ request.

- a) Setup
- b) Inquiry
- c) Switching
- d) Acceptance**

122. When data is sent or received using _____, the data bits are organized in a specific order, since they can only be sent or received one after another.

- a) Parallel data transmission
- b) Hybrid data transmission
- c) Serial data transmission**
- d) Both parallel and serial transmission

123. Multipoint channel can be shared in _____ manner.

- a) Spatial
- b) Temporal
- c) A lot of ways
- d) Both temporal and spartial.**

124. TCP/IP was presented by _____ in a research paper.

- a) Vin Cerf and bob Kahn**
- b) Vint Cerf and David Lazer
- c) Bob Kahn and Kathleen Carley
- d) Duncan Watts and Peter Bearman

125. A frequency is called -----, if the rate of change in sine wave is instantaneous.

- a) Bandwidth
- b) Zero frequency
- c) Frequency hertz
- d) Infinite frequency**

126. In _____ TCP/IP was declared as the official protocol of internet.

- a) 1983**
- b) 1980
- c) 1973
- d) 1988

127. Some manufacturers provide a special port called the _____ port that allows a wireless keyboard to communicate with a PC.

- a) USB
- b) IRDA**
- c) Parallel
- d) Consol

128. _____ is the Nyquist bit rate formula for noiseless channel.

- a) $\text{BitRate} = 2 * \text{Bandwidth} * L$
- b) $\text{BitRate} = 2 * \text{Bandwidth} * \log_2 L$
- c) $\text{BitRate} = 3 * \text{Bandwidth} * \log_2 L$
- d) $\text{BitRate} = 2 * \text{Bandwidth} * \log_2 L$**

129. _____ is an example of transmitter.

- a) Hub

- b) Server
- c) Modem**
- d) Workstation

130. If the message going to pass through a packet-switched network, it can be divided into packets of .

- a) Fixed size
- b) Variable size
- c) Both fix and Variable size**
- d) None

131. In optical fiber a glass or plastic core is surrounded by a .

- a) Cladding**
- b) Outer conductor shield
- c) Inner Conductor shield
- d) Insulator

132. Low pass channel with bandwidth is not real and is used for theoretical modeling.

- a) Multiplex
- b) Infinite
- c) Ethernet
- d) Narrow**

133. is Shannon capacity formula to determine highest theoretically data rate for a noisy channel.

- a) $\text{Capacity} = \text{Bandwidth} * (1 + \text{SNR})$
- b) $\text{Capacity} = \text{Bandwidth} * \log_2(2 + \text{SNR})$
- c) $\text{Capacity} = \text{Bandwidth} * \log_2(\text{SNR})$
- d) $\text{Capacity} = \text{Bandwidth} * \log_2(1 + \text{SNR})$**

134. Binary Amplitude Shift Keying also called as:

- a) Dual Keying
- b) On-In Keying
- c) On-Off Keying**
- d) In-Out Keying

135. In circuit switching total Delay is combination of Connection Time and .

- a) Switching time
- b) Acknowledgement time
- c) Receiving time
- d) Connection tear down time**

136. In TDM based digital hierarchy used by the Telephone companies, DS-0 is a digital channel of .

- a) 1.544 Mbps**
- b) 128 kbps
- c) 64 kbps
- d) 32kbps

137. can be published using Request for Coments (RFCs).

- a) Proposed Standard
- b) Draft Standard
- c) Internet Draft**
- d) Internet Standard

138. have established standards for using these signals for communication between devices such as keyboards, mice, PCs, and printers.

- a) Microwave

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b) Infrared waves

- c) Simple waves
- d) Radio waves

139. is the sub type of Time Division Multiplexing Technique.

- a) Amplitude TDM
- b) Light TDM
- c) Statistical TDM**
- d) Barrier TDM

140. To calculate the data for noisy channel formula is used.

- a) Shannon**
- b) Nyquist
- c) Propagation
- d) Greedy

141. is an example of a host in a network.

- a) Router
- b) Computer**
- c) Bridge
- d) Hub

142. Switch is a network device which operates on the layer of TCP/IP protocol suit.

- a) Application
- b) Transport
- c) Presentation
- d) Data link**

143. To improve the performance of line coding coding was.....?

- a) **Block coding**
- b) MLT-3
- c) 2BIQ
- d) Double coding

144. Which one of the following is not a sampling technique?

- a) Flat Top Sampling
- b) **Neutral sampling**
- c) Natural sampling
- d) Ideal sampling

145. is normally used where speed is priority in data transfer.

- a) Serial data transmission
- b) **Hybrid transmission**
- c) Parallel transmission
- d) Both parallel and serial transmission

146. Entire band in United States is regulated by authorities.

- a) **FCC**
- b) ITU
- c) NASA
- d) ANSI

147. The material used for conduction in twisted pair cable is _____.

- a) Gold
- b) Silver
- c) **Copper**
- d) Aluminum

148. In transmission impairments _____ noise occurs from other sources like motors and appliances etc.

- a) Impulse
- b) Thermal
- c) Induced**
- d) Cross talk

149. Token Ring was devised by _____.

- a) OSI
- b) IBM**
- c) DELL
- d) NASA

150. In _____ signal changes its shape or form.

- a) Distortion**
- b) Attenuation
- c) Thermal noise
- d) impulse Noise

151. OSI stands for _____.

- a) Open System Interface
- b) Open Source Interconnection
- c) Open system interconnection**
- d) Open Standard Interconnection

152. The human voice normally contains frequency range from

_____.

- a) 0 to 6000 Hz
- b) 0 to 5000 Hz
- c) 0 to 3000 Hz

d) 0 to 4000 Hz

153. According to the Fourier analysis, frequencies obtained after decomposition of non periodic digital signals are _____.

a) Bit length ok

- b) Automatic
- c) Continuous
- d) Heterogeneous

154. _____ is an Application layer protocol, that is used for accessing the internet.

- a) UDP
- b) TCP
- c) MAC

d) HTTP

155. _____ encoding scheme is somewhat a combination of the RZ and NRZ-I schemes.

- a) AMI
- b) Manchester**
- c) Differential Manchester
- d) Manchester and differential Manchester

156. To improve the performance of line coding _____ coding was introduced.

- a) 2BIQ
- b) MLT-3
- c) Block coding**
- d) Double coding

157. In optical fiber a glass or plastic core is surrounded by a _____.

- a) Insulator
- b) Cladding**
- c) Inner Conductor shield
- d) Outer conductor shield

158. in NRZ-1 the signal is inverted if ----- is encountered.

- a) 0
- b) 1**
- c) 00
- d) 11

159. In ----- signal changes its shape or form.

- a) Thermal noise
- b) Distortion**
- c) Impulse noise
- d) Attenuation

160. ----- coding scheme are useful for LAN but not for long ranges.

- a) Biphase**
- b) Line
- c) Vector
- d) Serial

161. When the bandwidth of a link is greater than the combined bandwidths of the signals, we

use ----- multiplexing.

- a) Wavelength division

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b) Frequency division

- c) Time division
- d) Hybrid division

162. The ----- technique expands the bandwidth of a signal by replacing each data bit with n bits using a spreading code.

- a) FDM
- b) FHSS
- c) TDM
- d) DSSS**

163. In _____, each station is allocated a time slot during which it can send data.

TDMA

164. DLC in Data Link Layer stands for _____.

Data Link Control

165. _____ contains a repeater.

Active hub

166. _____ encoding is almost obsolete today

Unipolar

167. In Pure ALOHA, the vulnerable time is _____ the frame transmission time.

Two times

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168. What is the period of a Sine wave having frequency of 5 Hz?

0.2

169. In _____, each station sends a frame whenever it has a frame to send.

Slotted ALOHA

170. The original Ethernet technology with the data rate of 10 Mbps is called _____?

Standard Ethernet

171. The _____ protocol uses both flow and error control.

Stop-and-Wait

172. Which one is not the function of data link layer?

Line discipline

173. _____ are used to transport user data and control information relating to user data

Information frames

174. High-Level Data Link Control(HDLC) defines _____ types of frames to deal with the transfer modes.

3

175. In PCM technique Quantization is an _____ process

Un-balanced

176. There are __ common scrambling technique

Two

177. Packets travel in ____ layer of TCP/IP protocol suit

Network

178. Writing used for transmission modes depends upon _____.

Data stream

179. Open system interconnection (OSI) has __ number of layers

7

180. _____ is a multiplexing technique which shifts each signal to a different carrier frequency.

FDM

181. Binary Amplitude Shift Keying is also called as:

On-Off Keying

182. Induced noise Cable TV networks use _____ cables.

Coaxial

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183. Demultiplexer is a _____ device.

One to many

184. In frequency modulation, the frequency of the oscillator changes according to the _____.

Input Voltage

185. The baud rate is _____ to the bit rate.

Measure

186. _____ signal completes a certain pattern in a specific amount of time.

Periodic

187. Time taken by a periodic signal to complete one cycle is called _____.

Period

188. In _____ data moves faster and timing errors are less frequent because the transmitter and receiver time is synced.

Synchronous

189. HDB3 falls under which coding scheme?

Bipolar

190. In scrambling coding scheme, the number of pulses replacing the bits will be _____

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Equal to pulses

191. If a digital signal has “L” number of levels, _____ is the number of bits required to represent each level.

Log base 2L

192. The conversion of _____ sample of the signal into _____ form is called quantizing process

Sampling and quantizing

193. _____ is normally used for long-distance data transfer.

Both parallel and Serial data transmission

194. _____ is correct formula to determine the total number of ports needed for one system connected in a mesh network.

 $N*(N-1)$

195. In Ring topology, each node has a point to point dedicated link with.

Exactly 2 nodes

196. Manchester and differential Manchester encoding schemes are subtypes of _____ encoding scheme.

Double

197. In a bidirectional communication each layer performs two _____ tasks in each direction.

Opposite

198. In ___ scheme the voltages are on both sides of the time axis and voltage level for 0 can be positive and the voltage level for 1

Polar

199. Bandwidth can be measured in _____.
bits per second (bps)

200. Which error detection method uses one's complement arithmetic

Checksum

201. Like 10 Base 5, 10 Base 2 is a _____ topology LAN.

Bus

202. The transmission medium that carries the message is referred to as the _____.

Communication channel

203. Which one of the following is not a Channelization Protocol?

CSMA

204. _____ is an Authentication Protocol, which uses two-step process to authenticate user information.

PAP

205. In Block coding scheme, number of code words is always _____ data words.

Equal to

206. According to the Fourier analysis, frequencies obtained after decomposition of no period.

Continuous

Best of Luck

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