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1. In _____, the instantaneous change in the carrier frequency is proportional to the derivative of the amplitude of the modulating signal.
   Frequency
2. _____ layer is responsible for creating datagrams.
   The data link layer
3. Voltage controlled oscillator (VCO) generates _____ .
   4 ways
4. Block coding can help in _____at the receiver side.
   Synchronization and error detection
5. At the application layer, object/information is in the form of _____.
   Message
6. _____ is the first step in PCM technique.
   Sampling…confirm
7. Communication between two user in a cellular (Mobile) network is an example of __ communication.
   Full duplex….confirm
8. Transmission medium are of _____ types.
   Two….confirm
9. A frequency is called ____ if sine wave changes with time
   Infinte frequency…confirm
10. A frequency is called ____ if sine wave does not change with time
    Zero frequency ….confirm
11. Open system interconnection (OSI) has __ number of layers.
    7…confirm
12. 8In unidirectional antenna, the common point where all the lines
13. intersect each other is ___.
    Focus…confirm
14. To calculate the data rate for noisy channel ____ formula is used.
    Shannon….confirm
15. Television broadcast where user can only view the information sent in the form of video is an example of _____ communication.
    Simplex
16. N= S*r is the formula for finding
    Baud rate…..confirm
17. TCP/IP protocol suit has _____ layers.
    5….confirm
18. Unit of phase is _____.
    Degree….confirm
19. 14.For a noiseless channel theoretical formula to calculate the data rate was developed by.
    Nyquist…..confirm

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20. In context of bandwidth-delay product the cross section of the pipe represents the _____.
    Bandwidth…confirm
21. Uni polar Polar and Bipolar are types of _____ coding scheme.
    Line…confirm
22. In ___ scheme the voltages are on both sides of the time axis and voltage level for 0 can be positive ant the voltage level for 1 can be negative.
    Polar….confirm
23. In _____ transmission medium start and stop bits are used
    Asynchronous….confirm from net
24. In layered architecture of network logical connection between layers means.
    They are connected in peers…..confirm
25. OSI stands for _____.
    Open system interconnection….confirm
26. Quadrature Amplitude Modulation is the mechanism of _____conversion.
    Digital to analog…confirm
27. Writing used for transmission modes depends upon _____.
    Data stream…confirm
28. The maximum bandwidth required for QAM transmission is the same as that required for _ and _____ transmission.
    ASK, PSK
29. In optical fiber cable the ratio of the diameter of their core to the diameter of their cladding, both expressed in _____.
    Micrometers…confirm
30. Radio waves are propagated in _____ whenever they are transmitted by an antenna.
    All direction …confirm from net
31. _____component of data communication governs the overall communication on the network.
    Transmission medium…confirm
32. In binary ASK, the peak amplitude of one signal level is 0 and the other is the same as the _____.
    Amplitude
33. In _____ scheme, all the signal levels are on one side of the time axis, either above or below.
    Unipolar…confirm from net
34. Simple sine wave can be used to send.
    Amplitude
35. Paging system in data communication uses _____ waves.
    Radio waves…confirm from net
36. Multipoint channel can be shared in _____ manner.
    Both temporal and spartial…confirm

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37. _____ is an example of multipoint topology
    Bus…confirm
38. Bandwidth can be measured in _____.
    Bps…confirm
39. In____encoding scheme, we use three levels positive negative and zero
    Bipolar…confirm from net
40. Header size _while moving down the layers at sending side
    Decreases
41. _____signals have limited number of discrete value
    Digital….confirm
42. _____ is a block coding method
    NRZ-1….confirm
43. Technique that allows the simultaneous transmission of multiple signals across a single data link, is known as _____.
    Multiplexing….confirm
44. Simultaneous transmission of multiple signals across a single data link is called.
    Multiplexing…confirm
45. Minimum bandwidth required for Manchester line coding scheme is_____.
    1Mhz…confirm
46. AMI is a popular _____ encoding method.
    Bi-polar….confirm
47. TCP/IP was presented by _____ in a research paper
    Vin Cerf and bob Kahn…confirm
48. Among the following cables given below _____ cable has the cost as compared to others.
    Medium….confirm
49. Among the following cables given below _____ cable has the lowest cast as compared to others.
    Coaxial cable…confirm
50. Among the following cables given below _____ cable has the highest cast as compared to others.
    Fiber optic cable…confirm
51. _____ is correct formula to determine the total number of ports needed for one system connected in a mesh network.
    n-1….confirm
52. A twisted pair cable consists of _____ conductors
    2 ….confirm
53. Packets travel in ____ layer of TCP/IP protocol suit
    Network ….confirm from net
54. HDB3 falls under which coding scheme?
    Bipolar…confirm

55. According to the Nyquist theorem, the sampling rate must be at least____ times the highest frequency contained in the signal.
    2…..confirm
56. _____ protocol suit is being used by the modern internet communication
    TCP/IP…confirm
57. LF(low frequency) band is used in _____ propagation
    Ground….confirm
58. _____ is a type of serial transmission in which data bits are transmitted as a continuous stream in time with a master clock, start bits, stop bits and gaps are not used. Transmitter and receiver time is sync.
    Synchronous….confirm
59. Identify the correct formula to calculate Propagation time.
    Propagation time= Distance/ propagation speed….confirm
60. The communication of the application, transport and network layer is _____
    Physical…confirm
61. Frames travel in _____ layer of TCP/IP Protocol suite.
    Data link
62. Manchester encoding scheme achieves the same level of synchronization as _____.
    RZ…..confirm
63. In Manchester and differential Manchester encoding schemes, the signal rate is _____ than that of NRZ.
    Double…confirm from net
64. In a bidirectional communication each layer performs two ____ tasks in each direction.
    Opposite…confirm
65. _____ is composed of thousands of interconnected networks expanded over large geographical area.
    Local area network
66. Time taken by a periodic signal to complete one cycle is called.
    Period…confirm from net
67. There are __ common scrambling technique
    Two ….confirm
68. The bipolar encoding scheme was developed as an alternative of ____.
    NRZ…confirm from net
69. FSK stands for _____.
    Frequency shift keying….confirm
70. In ___ encoding scheme, the voltage level oscillates between a positive and a negative value although it may remain at zero level between the two values.
    Polar…confirm from net
71. _____ is an example of transmitter.
    Modem

72. The material used for conduction in twisted pair cable is _____.
    Copper
73. RG-11 having impedance of 50 ohm is used in _____ Ethernet
    Thin….confirm
74. _____ encoding scheme is somewhat a combination of the RZ and NRZ-l scheme
    Manchester encoding…confirm from net
75. _____ has less electromagnetic interference as compared to other guided medium.
    Unshielded Twisted Pair
76. Electromagnetic waves ranging in frequencies between _____ are called microwaves.
    1 to 300 GHz
77. Switch is a _____ layer devices
    Data link…confirm
78. _____is Shannon capacity formula to determine highest theoretically data rate for a noisy channel.
    Capacity = Bandwidth * log2(1+SNR)….confirm
79. _____is the range of frequencies contained in a composite signal.
    Bandwidth…confirm
80. In PCM technique Quantization is an _____ process
    Un-balanced
81. In Ring topology, each node has a point to point dedicated link with.
    Exactly 2 nods….confirm
82. In _____ modulation process is used by the transmitting devices to shift their data to a specific carrier frequency for multiplexing.
    Fdm…confirm
83. Five stations will have _____ full duplexed dedicated links among them to be connected in a Mesh topology.
    10….confirm
84. Which of the following technique(s) is used for Analog-to-Digital Conversion. Both Pulse Code Modulation(PCM) and Delta
    Modulation(DM)…confirm
85. The human voice normally frequency range from _____.
    0 to 3000Hz
86. The layer of TCP/IP protocol suite which is on the top is known as_____ layer.
    Application…confirm
87. In _____ type of error, two or more bits in the data unit will bechanged.
    Burst….confirm
88. _____ is the process of converting digital data to digital signal.
    Line coding…..confrim
89. Manchester encoding scheme uses and inversion at the _____ of each bit.
    Middle….confirm

90. FF:FF:FF:FF:FF:FF is a _____ link layer address.
Broadcast…..confrim
91. A3 34 45 11 92 F1 is a _____ link layer address.
Data, unicast….confirm
92. High-Level Data Link Control(HDLC) defines ____ types of frames to deal with the transfer modes.
3…..confirm
93. _____ is the number of bits sent in 1 second
Bit rate(bps)…confirm
94. _____ Time required to send 1 single bit.
Bit interval…confirm
95. 90._____ are used to transport user data and control information relating to user data
96. Information
frams(I-frames)…..confirm
97. _____are used only to transport control information
Supervisory frames(S-frames)…..confirm
98. _____are reserved for system Management
Unnumbered frames(U-frames)…..confirm
99. ._____ are used to exchange session management and control information between connected devices.
U-frames….confrim
100. In order to find Hamming distance between two pair of words _____logical operation is used.
XOR….confrim
101. Data Link layer receives services from the _____layer.
Physical
102. The _____ is the number of signal elements sent per unit time.
Bit rate…..confrim
103. In order to resolve link layer address of the next node, the first generated ARP request is always in _____ mode.
Broadcast
104. In Block coding we divide our message into blocks of k bits called as_____.
Data words…..confirm
105. To control and manage the transfer of data, a protocol called point to point (PPP) is used at the _____ layer
Data Link
106. In character oriented protocol, each character of frame is encoded using ____ coding system.
ASCII
107. Error detection and correction are the services provided by_____ layer.

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Data link layer ….confirm from net

108. _____ is used in the stop-and-wait protocol to overcome the issue of duplication. Frame sequencing and Acknowledgment
Numbering…confirm from net

109. Stop-and-weight protocol is used for _____.
Both flow and error control….confirm

110. Error correction is more _____ than the error detection
Difficult…confirm from net

111. Payload field of the PPP frame is of variable size and it can carry maximum data up to_____.
1500 bytes….confirm from net

112. If duration of noise is decreased during a transmission over noisy channel. Fixed data rate of the channel will cause _____ number of bits being impacted by the noise.
More….confirm from net

113. One of the most common protocols for point-to-point access is _____.
PPP…confirm

114. In linear Block codes _____ of two valid code words creates another valid code word.
XOR…confirm

115. Which layer is concerned with the syntax and semantics of info exchange between two systems?
Presentation

116. Traditionally MANs have been implemented using one of the 2 technologies, Circuit Switching and Packet Switching
False

117. In OSI model headers are added at layer _____.
6,5,4,3,2 only

118. _____ works with topologies in which one drvice is designated as a primary station and the other devices are secondary stations.
Polling

119. Signals travel through fiber optic cable are in the form of _____.
Light…confirm from net

120. PSK is susceptible to the noise degradation.
False

121. What is the frequency of a sine wave if it completes one cycle in 5 seconds?
0.2

122. Which one is not the function of data link layer?
Line discipline

123. Error detection and correction are the services provided by _____ layer. Data link layer

124. _____ is not a function of Data Link Control.

Modulation

125. No matter whether the link is dedicated or broadcast, data link control (DLC) layer provides services between _____.
Two adjacent nodes

126. The inversion of the level represents a 1 bit in _____ encoding
NRZ-I

127. Guard bands are used in _____ multiplexing technique, guard bands to avoid overlapping of frequency bands assigned to each user. FDM…confirm

128. The _____ protocol uses both flow and error control. Stop-and-Wait

129. Each computer on the Internet has a unique numeric address called a(n) _____.
IP address

130. WDM stands for _____.
Wave Division Multiplexing

131. A fiber -optic cable transmit signals in the form of _____. Light

132. CDMA stands for _____. Code Division Multiple Access

133. Quantization is a method of assigning _____ values in a specific range to sampled instances. Integral

134. STP is more expensive than UTP and is less susceptible to noise. True

135. In circuit switched networks we have low efficiency but minimal_____.
Delay….confirm

136. Which level of the TCP/IP reference model routes data/information across a network channel? Network Layer

137. A portion of the path that carries TX between a given pair of devices is known as _____. Channel

138. Digital signals are refered to be _____. Discrete

139. BSC supports _____ transmission using _____ flow control.
a. Half-duplex, Stop and wait ARQ

140. _____ is the rate of change with respect to time. Amplitude

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

142. If we need to correct a single error in an 8-bit data unit, we need to consider _____ possible error locations. 16

143. In Pulse Code Modulation (PCM), the sampling is dependent on _____.
Amplitude…confirm

144. The extra bits added with the original data for error detection/correction are called _____. Redundant bits

145. Which of the following sublyer resolves the contention for the shared media? MAC

146. PAP and CHAP are used by _____ as Authentication Protocols PPP…confirm

147. Media Access Control (MAC) and Data link (DLC) constitute_____ layer
a. Data Link….confirm

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148. In _____, each station sends a frame whenever it has a frame to send.
    a. Slotted ALOHA
149. What is the period of a Sine wave having frequency of 10 Hz?
    a. 0.1
150. Is there any difference between Data communication and telecommunication are network?
    a. No
151. In TCP/IP protocol suite, the process of adding header at each layer on sending side is known as _____. Packetizing
152. _____ is correct formula to determine the total number of ports needed for one system connected in a mesh network. N-1
153. Following characteristics fully describe _____,Amplitude, Period/Frequency, Phase Sine Waves
154. What is the period of a Sine wave having frequency of 5 Hz? 0.2
155. The inversion of the level at 1 bit is called as _____. NRZ-I
156. In _____, both peak amplitude and frequency remains constant as the phase changes. PSK
157. At the CRC generator, _____ added to the data unit before the divisional process. 0s are
158. In Pure ALOHA, the vulnerable time is _____ the frame transmission time. Two times
159. In Block coding we divide our message into blocks of k bits called as _____. Data words
160. Analog refers to something that is continuous in _____. Time
161. _____ of a signal is the collection of all the component frequencies it contains. Frequency spectrum
162. _____ encoding is almost obsolete today Unipolar
163. Which of the following is most affected by noise? ASK
164. In _____, a signal is directed straight from antenna to antenna.Line of sight propagation
165. To control and manage the transfer of data, a protocol called Point to Point Protocol (PPP) is used at the _____ layer. Network
166. The level of signal is always positive in NRZ encoding. false
167. _____ signal can take infinite levels of intensity over time. Analog….confirm from net
168. _____ is sometimes called the bit rate. Data rate…confirm from net
169. _____ contains a repeater.Active hub
170. _____ is/are un-reliable protocol(s). UDP
171. Low pass channel has _____ bandwidth between two stations. Shared…confirm from net

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172. The message 1110 sent by a source is received by a destination as 1011. This is _____ type of error. Burst
173. TROPOSHERE is the layer of atmosphere above the troposphere but below space False
174. In Pure ALOHA, the vulnerable time is _____ the frame transmission time. Two times
175. Asynchronous transmission is _____. Slow
176. Radio is an example of _____ signal conversion. Analog to analog
177. Which error detection method consists of a parity bit for each unit as well as an entire data unit of parity bits? Longitudinal Red Check (LRC)
178. Session layer is responsible for _____.
Maintaining the connection
179. If duration of noise is decreased during a transmission over noisy channel, fixed data rate of the channel will cause _____ number of bits being impacted by the noise.
More
180. S-frames in High-Level Data Link Control (HDLC) are only used to transfer _____ information.
Control
181. In ASK, both _____ and _____ remain constant.
Frequency, Phase
182. Encoding digital data into digital signals is called _____.
Digital-to-Digital Conversion
183. GO-BACK-N protocol is one of the _____ layer protocols, which is used to control the flow of data during the transmission.
Network
184. In ASK correct formula for calculating the bandwidth is as _____.
B=(1+d)S….confirm
185. The type of ALOHA which improves the efficiency of Pure ALOHA is _____.
Slotted ALOHA
186. In which controlled-access method all data exchanges must be made through primary device even when the ultimate destination is a secondary device?
Polling
187. The _____ generates the data and passes it along with any control information to a _____.
DTE, DCE
188. _____ is used in the Stop-and-Wait protocol to overcome the issue of duplication.
Frame sequencing and Acknowledgement numbering
189. Transmission Control Protocol is a(n) _____ layer protocol.
Network
190. The Internet is _____.
a global network of computers networks

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191. We can have _____ different groups with a 4 bit block.
8

192. Analog To Analog Conversion Methods include _____.
AM, PM and FM

193. DLC in Data Link Layer stands for _____.
Data Link Control

194. What is the Bandwidth of a periodic signal if it is decomposed into 4 sine waves with frequencies 200, 400, 600 and 800?
600

195. _____ category of coaxial cable is used for thin Ethernet.
RG-58….confirm

196. _____ category of coaxial cable is used for thin Ethernet.
RG-8, RG-9, RG-11 …….confirm

197. _____ category of coaxial cable is used for Cable TV
RG59….confirm

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

199. _____ transmission technology (based on Ethernet) provides a data rate of 1 billion bits per second.
10BASE-T Ethernet

200. Time domain plot show changes in signal phase with respect to time.
false

201. dB is negative if a signal is _____.
Attenuated

202. Which of the following is not a characteristic of a sine wave?
Segmentation…confirm

203. What is the Bandwidth of a periodic signal if it is decomposed into 4 sine waves with frequencies 300, 600, 900 and 1200?
900

204. Asynchronous TDM is efficient only when the size of the time slot is kept relatively _____.
Large

205. A sine wave is defined by _____ characteristics.
3

206. Switch is a network device which operates on the _____ layer of the TCP/IP protocol suite.
Data link

207. In even parity check code, the value of syndrome is _____ if the number of 1s is even.
0

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208. 4Collisions in CSMA/CA are avoided through _____.
All of the given
209. Human voice is example of _____ signal.
Analog
210. Time domain shows changes in _____.
signal amplitude w.r.t time
211. Normally the value of Kmax in pure ALOHA is _____.
15
212. Central Hub in a Tree is an _____.
213. Active hub
214. In selective-reject ARQ, only the specific damaged or lost frame is
215. _____.
Retransmitted
216. 208. If users must take turns using the link, then it is called Spatial Sharing.
false
217. At the CRC checker, _____ means that the data unit is damaged.
A nonzero remainder
218. Digitizing an Analog Signal is called _____.
Analog-to-Digital Conversion
219. WDM stands for _____.
Wavelength Division Multiplexing
220. What was the main draw back in ALOHA Random-Access method?
All of the given
221. YMODEM has _____ Byte of data unit.
1024
222. Like Data link layer, _____ is also responsible for Flow control.
Transport Layer
223. In Block coding scheme, number of code words is always _____ data words.
Equal to
224. 216. RZ stands for _____.
Return ot Zero
225. Line Configuration refers to the way two or more devices attach to a _____.
Link
226. The flag in PPP is a byte that needs to be _____ whenever it appears in the data section of the frame.
Escaped
227. At the Application layer, object/information is in the form of _____.
Packet
228. The term _____means that only one bit of a given data unit is changed from 1 to 0 or from 0 to 1.

Single Bit Error

229. What is the frequency of a sine wave if it completes one cycle in 2 seconds?
0.5

230. POST stand for _____?
Plain Old Telephone Service

231. To make sure that source does not overwhelm destination by sending data faster than it can be handled and processed is called?
Flow Control

232. "If a digital signal has ""L"" number of levels. _____ is the number of bits required to represent each level."
Log base 2 L….confirm

233. In ASK, Noise usually affects the _____.
Amplitude

234. In order to find the location of two errors in an eight bit stream, we have to see _____ different combinations.
28

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

236. Which one of the following is a correct-access method?
Reservation

237. By using _____ system, change in the file contents during file transmission can be avoided.
Error Detection and Correction

238. Radio wave transmission utilizes _____ different types of propagation.
Five

239. A broadcast signal is received by the orbiting satellites which rebroadcasts _____.
none of the given

240. What is the period of a Sine wave having frequency of 2 Hz?
0.5

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

242. Isochronous…confirm from net Time division multiplexing is used in _____ systems.
Digital….confirm from net

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

244. Which of the following statement is correct?
Digital signals are less prone to Noise

245. In an analog hierarchy to carry voice channels, a group can carry _____ voice channels.
12(4khz)….confirm

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246. In an analog hierarchy to carry 12 voice channels, 5 group _____
48kHz….confirm
247. In an analog hierarchy to carry 60 voice channels, a 10 super
248. group _____bandwidth
240kHz….confirm
249. In an analog hierarchy to carry 600 voice channels, a 6 Master
250. group _____
2.52Mhz….confirm
251. In an analog hierarchy to carry 3600 voice channels, a Jumbo group _____
16,984MHz …..confirm
252. In line discipline after the data transmission, the sending system
253. finishes with an _____ frame.
EOT
254. Data is transmitted using light through a _____ cable.
fiber-optic
255. Data Link layer provides services to the _____ layer.
Network
256. If the Hamming distance between sent and received code word is _____, then it shows that received data is corrupted. ?
0
257. _____ is responsible for governing node to node communication.
Data Link layer
258. Mr. Asif while sitting in Lahore is talking with his friend in Dubai
259. through Skype is an example of _____.
Wide Area Network
260. In frequency shift keying, _____ remain(s) constant.
Both Peak amplitude and Phase …confirm
261. In Amplitude shift keying, _____ remain(s) constant.
Both frequency and phase…confirm
262. In Phase shift keying, _____ remain(s) constant.
Both peak amplitude and frequency…confirm
263. Analog signals are refers to be _____
Continuous
264. Baud rate is greater than or equal to the bit rate.
False
265. . In statistical time division multiplexing, number of slots in frame are less than _____.
Input lines…..confirm
266. _____ are used to exchange session management and control information between connected devices.

U-frames

267. . Terminal, microprocessor, computer, printer or any other device that generates or consumes digital data is known as _____
DTE

268. There are three types of Hubs that exist. Which of the following options correctly describes these three?
Passive, Active, Intelligent

269. Which of the following consist of just one redundant bit per data unit?
Simple Parity Check

270. In the encoding where positive to negative transition is one and vice versa is zero.
None of given option

271. Error correction is more _____ than the error detection.
Difficult

272. If the window size is 63 in go-back N ARQ then what is the range of sequence number?
0 to 63

273. _____ is normally used where speed is priority in data transfer.
Hybrid transmission

274. In Synchronous TDM, Time slots are not same in number as input devices.
False

275. In analog transmission, the base signal is called the_____.
Carrier Signal

276. In _____ a dedicated communication path is established between two stations through the nodes of the network
Circuit switching

277. Which one of the following is a Random-Access protocol?
CDMA/CD

278. A _____ modem is used to connect two DTEs directly.
NULL

279. The flag in PPP is a byte that needs to be _____ whenever it appears in the data section of the frame.
Escaped

280. _____ is an Authentication Protocol, which is used by the PPP to authenticate passwords.
PAP

281. In CRC there is no error if the remainder at the receiver is _____.
Zero

282. VCI address is _____ address in virtual circuit approach.
Global…confirm from net

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

PAP

284. Possession of TOKEN gives the station the right to _____.
send the data

285. The transmission medium that carries the message is referred to as the _____.
Communication channel

286. Latency is made of _____ components.
Four….confirm

287. Sampling means measuring _____ of signal at equal intervals
Amplitudes

288. Which error detection method uses one's complement arithmetic?
Checksum

289. To calculate the data rate for noisy channel _____ formula is used.
Shannon…..confirm

290. To calculate the data rate for noisless channel _____ formula is used.
Nyquist….confirm

291. Checksum is an error-detection technique that can be applied to a message of _____ length.
Any

292. In _____ each band is reserved for a specific ststion, and it belongs to the station all the time.
FDMA

293. Flow control is needed to prevent _____.
Overflow of the receiver buffer

294. Quadrature Amplitude Modulation (QAM) is the combination of _____ and _____.
FSK, PSK

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

296. In the _____ method, the stations in a network are orgamized in a logical ring.
Token-passing

297. Two or more computers connected so that they can communicate with each other and share information is called a _____.
network

298. The logical connection between the peer layers is _____connection.
Direct….confirm from net

299. In CSMA/CA, _____ is the amount of time divided into slots.
Contention Window

300. _____ relative measures the strength of two signals.
Decibal ….confirm

301. A sine wave is _____.

periodic and continuous

302. There are _____types of guided media.

3

303. AM signal requires _____ the BW of original signal

Twice

304. CHAP is an Authentication Protocol, which uses _____ process to authenticate user information.

Three-way

305. There are _____ types of serial transmission.

2

306. 294. There are _____ basic categories of multiplexing.

3

307. Congestion Control is a feature of layer(s).

All mentioned

308. Most commonly used connector for twisted pair cable is _____.

RJ-45….confirm from net

309. _____ does not happen until all the data is transferred and

310. all of the resources are freed.

Switching

311. A local telephone network use _____network.

Circuit switched…confirm from net

312. Microwaves are _____.

Unidirectional ….confrim

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

Infrared waves…confirm from net

314. Datagram approach and virtual circuit approach are two popular approaches which lead us to _____.

Circuit switching….confirm

315. In circuit switching when two end devices ‘A’ and ‘B’ connects with each other they send ____ request.

Acceptance

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

Cladding…confirm

317. _____ are used for multicast communication, such as radio and television.

Radio waves…confirm

318. . DLC in data link layer stands for ____

Data Link control….confirm

319. In virtual Circuit network all packets follow _____ path

Dedicated

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320. Multi mode technology has _____ main types for light propagating.
Two

321. If the message is going to pass through a packet-switched network. If can be divided into packets of _____.
Both fix and variable size

322. According to state, fewer than _____ crossbar points can be used at once.
25%

323. _____ and _____ are the two types of addressing in virtual circuit approach.
Local, Global

324. Cable TV networks use _____ cables
Coaxial….confirm from net

325. The size of the packet is determined by the network and_____.
Governing Protocol

326. In circuit switching total delay is combination of connection time. Data transfer time and _____
Connection tear down time

327. Which one of the following is not among the required phases for the actual communication in a circuit-switched network?
Protocol

328. Electromagnetic waves ranging in frequencies between 1 and 300 GHz are called _____.
Microwaves

329. If we increase the data rate of a transmission over noisy channel, fixed noise duration will cause _____ number of bits being impacted by the noise.
Less

330. In case of higher data rate, the number of impacted bits will be _____.
Higher

331. In baseband transmission, a digital signal is transmitted as_____.
Analog signal….confirm from net

332. _____ Cable is used in wavelength division multiplexing.
Fiber optic….confirm from net

333. The ———— technique expands the bandwidth of a signal by replacing each data bit with n bits using a spreading code.
DSSS…confirm from net

334. When the bandwidth of a link is greater than combined bandwidths of the
Frequency division….confirm from net

335. According to the Fourier analysis, frequencies obtained after decomposition of no period.
Continuous……confirm from net

336. Router is a network device which operates on the __ layer of the TCP/IP protocol.
Network…confirm from net

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337. Uni polar, polar and bipolar are the types of ————————
NRZ-I….confirm from net

338. According to stats, lower than ————————- crossbar point can be used at once .
25%....confirm from net

339. In ———— TDM, slots are dynamically allocated to the connected stations to improve bandwidth efficiency.
Statistical…confirm from net

340. In star based network comprising of four computers and on switch, total number of cables needed will be ————-
4…confirm from net

341. The conversion of analog sample of the signal into digital form is called _____ process.
Sampling and quantizing…confirm from net

342. On a communication link, different channels are separated by unused strips of bandwidth called as —————-.
Guard band

343. ————— is an example of host in a network.
Computer…confirm from net

344. In ————————— TDM, each input connection has an allotment in the output even if is not sending data.
Synchronous …confirm

345. ————— coding scheme are useful for LAN but not for long ranges
Biphase…confirm

346. In ———— signal changes its shape or form.
Distortion…confirm

347. . ————————- Protocol suite is being used by the modern internet communication.
TCP/IP…confirm from net

348. in NRZ-1 the signal is inverted if —————- is encountered.
1…confirm from net

349. Simultaneous transmission of multiple signal across a single data link is called——
Multiplexing..confirm from net

350. Two stations are connected via a secure link in which messages are encrypted from source to the destination message is called————————
Protocol

351. Which one of following is a scrambling coding technique?
B8ZS

352. According to the Fourier analysis, frequencies obtained after decomposition of digital signals are_____.
Discrete

353. _____ is the heart of blocking code.

Coding

354. Wireless transmission can be divided into_____ broad groups.
Three…confirm from net

355. Wiring used for transmission modes depends upon_____.
Latency

356. If a digital transmission system is sending five bits in every half a second, the bit-rate of the system.
10 bps…confirm

357. If the message going to pass through a packet-switched network, it can be divided into packets of_____.
Both fix and Variable size

358. In an analogue hierarchy to carry voice channels, a group can carry _____voice channels.
12

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

360. In transmission impairments _____ noise occurs from other source like
Induced…confirm

361. _____ is a digital process that allows connections to share the high bandwidth of a link.
TDM

362. Bandwidth in hertz in the range of_____ contained in a composite signal.
Frequencies

363. LAN stands for _____.
Local Area Network

364. Demultiplexer is a_____ device.
One to many

365. Mr. Asif while sitting in Lahore is linking with his friend in Dubai through Skype is a_____.
Wide Area Network

366. In _____ modulation, frequency and amplitude remain constant.
Amplitude

367. In TDM based digital hierarchy used by the Telephone companies, DS-1 is a single digital channel of_____.
1.544 Mbps…confirm

368. In TDM based digital hierarchy used by the Telephone companies, DS-2 is a single digital channel of_____.
6.312 Mbps…confirm

369. In TDM based digital hierarchy used by the Telephone companies, DS-3 is a single digital channel of_____.

44.376MBps…confirm

370. In TDM based digital hierarchy used by the Telephone companies, DS-4 is a single digital channel of_____.
274.176 MBps…..confirm

371. The bandwidth-delay product defines the number of bits that can fill the _____.
Link

372. If a digital-signals has four levels, then we need _____ bits to represent each level.
2

373. Routing is a function of_____ layer.
Network

374. _____ relatively measures the strength of two signals.
Decibel

375. Taking off the header from the message is called_____.
Encryption

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

377. _____ is the process of converting binary data to a digital signal.
Line coding

378. Low pass channel with _____ bandwidth is not real and is used for theoretical modeling.
Narrow or wide…both are confirm

379. Unit of phase is_____.
Degree

380. BFSK stands for_____.
Binary Frequency Sift Key

381. _____ is NOT an example of connecting device.
TCP

382. Coaxial cables are categorized by their_____ ratings.
Radio Government (RG)….confirm

383. Which one of the following is not among the required phases for the actual communication in a circuit switched network
Protocol

384. A common bipolar encoding scheme is called _____.
AMI

385. A telephone line analog signal has got the bandwidth of _____.
4 kHz…confirm

386. In _____ systems, resources are allocated on demand.
Circuit switching

387. A fiber-optic cable transmit signals in the form of_____.
Light

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388. Composite wave can be used to send _____.
Frequency
389. Routing is the function of _____ layer.
Network
390. A virtual-circuit network operates on _____layer.
Datalink
391. In TCP\IP model, the Physical Layer exchanges data in the form of _____.
Bits…confirm
392. _____ signal completes certain pattern in a specific amount of time.
Periodic
393. If a digital signal has four levels, the we need _____bits to represent.
2
394. We can have combination of_____ possible codes with a 5-bit code.
32
395. There are _____categories of multiplexing.
3
396. Top most organization that provides support for the Internet Standard process is called_____.
IETF
397. If the message is going to pass through a packet-switched network, it can be divided into packets of_____.
Both-fix and variable size
398. _____ data moves faster and timing errors are less frequent because the transmitter and receiver time is synced.
Synchronous…confirm
399. In frequency modulation, the frequency of the oscillator changes according tothe_____.
Input Voltage
400. Binary Amplitude Shift Keying also called as:
On-Off Keying
401. Bi-polar uses_____ voltage levels.
Two
402. In serial data transmission _____ data transmission mode can be cheap but slower.
Asynchronous
403. In star-based network comprising of four computers and one switch, total number of cable needed will be_____.
4
404. Parabolic antenna is used for_____ communication.
Microwave…confirm
405. In circuit switching total Delay is combination of Connection Time and_____.

Connection tear down time

406. Datagram switching is done on_____.
Network Layer

407. Token Ring was devised by_____.
IBM…confirm

408. In TDM based digital hierarchy used by the Telephone companies, DS-0 is a digital channel of_____.
64 kbps…confirm

409. _____can be published using Request for Comments (RFCs).
Internet Draft….confirm

410. In transmission impairments_____ noise occurs from the random motion of electrons in a wire.
Thermal noise…confirm

411. Which one of the following is among the required phases for the actual communication in a circuit switched network?
Data transfer

412. According to the Fourier analysis, frequencies obtained after decomposition of nonperiodic digital signals are_____.
Bit length

413. The most common type of connector used by the coaxial cable is_____.
BNC

414. 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.
Serial data transmission

415. _____have established standards for using these signals for communication between devices such as keyboards, mice, PCs, and printers.
Infrared waves

416. In case of Frequency shift key, the difference between two frequency is represented as_____.
2 delta….confirm

417. _____category of coaxial cable is used for thin Ethernet.
RG-58

418. Cellular telephone uses_____ waves for communication.
Radio waves

419. _____ layer is responsible for the creating of the datagrams.
Network

420. In virtual circuit approach when a frame enters a switch and when it leaves a switch its VCI always_____.
Remain the same

421. According to stats, fewer than_____ crossbar points can be used at once.

25%

422. Data format used at Transport layer of TCP\IP protocol suit is called_____.

Packet

423. A virtual circuit network operates on _____ layer.

Application

424. If 32 bits are sent in two seconds then the bitrate for that signal is_____.

64 bps

425. _____ normally used for long-distance data transfer.

426. Both parallel and Serial data transmission

_____ is a block coding method.

8B\10B

427. TCP\IP was chosen to be the official protocol of internet _____.

1983

428. To measure the data rate _____ theoretically formula(s)Were developed.

Four

429. In FSK, Baud rate is less than or equal to _____ rate.

Bit rate…..confirm

430. _____ signal is represented by the discrete values.

Digital

431. Electromagnetic waves ranging in frequencies between 3 kHz and 1 GHz are called_____.

Radio waves

432. Suppose a signal is amplitude then the value od decibel will be _____.

Positive

433. _____ technique does not follows analog conversion.

QAM

434. In Pulse Code Modulation (PCM), the sampling is dependent on_____.

Amplitude

435. _____ is the sub type of Time Division Multiplexing Technique.

Statistical TDM

436. Modulation of analog signal is needed if the medium is _____ in nature.

Bandpass

437. Quadrature Amplitude Modulation (QAM) is the combination of_____ and

438. _____.

ASK-FSK

439. There _____ components of data communication system.

5…confirm

440. QPSK stands for_____.

Quadrature phase shift key

441. To calculate the data rate for noisy channel_____ formula is used.

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Shannon

442. Binary Amplitude Shift Keying(ASK) is also called as:

On-Off Keying….confirm

443. Some manufacturers provide a special port called the_____.

IrDA

444. To calculate the data rate for noiseless channel _____ formula is used.

Nyquist

445. Two PCs and one printer are connected in a network within a room, it is an example of_____.

LAN…confirm from net

446. Analog the following cables given, _____ cable provides highest bandwidth and less attenuation.

Fiber optical

447. To calculate the data for noisy channel_____ formula is used.

Shannon

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

Delay

449. Polar encoding scheme uses_____ voltage level.

2….confirm

450. TCP\IP protocol suit consists of _____ layers.

5…..confirm

451. Bandwidth in hertz is the range of_____ contained in a composite signal.

Frequencies….confirm

452. _____ is an example of a host in a network.

Computer

453. Set of rules to be followed for effective communication is called_____.

Protocol

454. _____ is NOT an example of a connecting device.

TCP

455. When an antenna transmits radio waves, they are propagated in _____.

Only up and down direction

456. Which one of the following is not a bipolar encoding level?

One

457. _____and_____ are the two types of addressing in virtual circuit approach.

Local, Global

458. In transmission implements_____ noise occurs from the effect of one wire on the other

Cross talk…confirm

459. In computer network the stations are connected to each other in such a way that each station is connected to every other station through dedicated links. This makes_____.

Bus

460. In scrambling coding scheme, the number of pulses replacing the bits will be_____?

Equal to pulses…..confirm

461. In the context of analog to analog signal conversation technique. “PM” Standsfor_____.

Phase modulation

462. _____ relatively measurement the strength of two signals.

Decibel

463. Datagram approach and circuit approach are two popular approaches which lead us to_____.

Packet switching

464. In virtual circuit approach when frame enters a switch and when it leaves a switch its VCi always_____.

Remain the Same

465. _____ means loss of energy in signal.

Attenuation

466. A local telephone network use _____network.

Circuit switched

467. In Amplitude Shift Keying. _____of the signal is/are changed.

Amplitude

468. In frequency domain plot, which value is plot on Y-axis?

Amplitude….confirm

469. In pulse code modulation the term sampling can also be referred as_____.

Pulse Amplitude Modulation

470. In analog transmission of digital data, the required bandwidth is always proportional to the signal rate expect in _____ a digital to analog conversion technique.

ASK

471. WDM stands for_____.

Wavelength Division Multiplexing

472. _____ does not follows analog to analog conversion.

QAM

473. On a communication link, different channels are separates by unused strips of bandwidth called as_____.

Guard band

474. _____ layer converts frames coming from Data Link Layer into bits and sends

475. Them on the transmission medium.

Physical

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476. Wavelength binds the_____ of a simple sine wave to the propagation speed of the medium.
Period of the frequency book page 61

477. The bandwidth delay product define the number of bits that can fill the_____.
Network

478. The size of the packet determined by the network and _____.
Governing protocol

479. To improve the performance of line coding _____coding was……?
Block coding…confirm

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

481. _____is normally used where speed is priority in data transfer.
Hybrid transmission

482. 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.
Mesh…confirm

483. Some manufacturer provide a special port called the_____port that allows a wireless keyboard to communicate with a PC.
IrDA

484. Current technology supports_____ modes for propagation of light.
Two

485. We quantize the sampling output into certain levels based on range of_____ and required accuracy.
Amplitude….confirm

486. _____is the Nyquist bit rate formula for noiseless channel.
BitRate=2*Bandwidth*log2 L…confirm

487. A frequency is called _____, if the rate of change in sine wave Is Instantaneous.
Infinite frequency book page 59

488. Which multiplexing technique involves signals composed of light beams?
WDM….confirm

489. _____ is a multiplexing technique which shifts each signal to a different carrier frequency.
FDM…confirm

490. Entire band in United States is regulated by_____ authorities.
FCC

491. _____ signals can take infinite levels of intensity over time. Analog
Bi-polar uses_____ voltage levels.
a. Two

492. In serial data transmission _____ data transmission mode can be cheap but slower.

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Asynchronous

493. In star-based network comprising of four computers and one switch, total number of cable needed will be_____.

4

494. Parabolic antenna is used for_____ communication.

Microwave

495. In circuit switching total Delay is combination of Connection Time and_____.

Connection tear down time

496. Guard bands are used in _____ multiplexing technique, to avoid overlapping of frequency bands assigned to each user

FDM

497. Datagram switching is done on_____.

Network Layer

498. Token Ring was devised by_____.

IBM

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

1.544 Mbps

500. _____can be published using Request for Comments (RFCs).

Internet Draft

501. In transmission impairments_____ noise occurs from the random motion of electrons in a wire.

Thermal noise

502. In ASK correct formula for calculating the bandwidth is as_____-

B=(1*d)S

503. Which one of the following is among the required phases for the actual communication in a circuit switched network?

Data transfer

504. According to the Fourier analysis, frequencies obtained after decomposition of non-periodic digital signals are_____.

Bit length

505. The most common type of connector used by the coaxial cable is_____.

BNC

506. When data is sent or received using_____ the data bits are organized in a specific order, since they

Serial data transmission

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

Infrared waves

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508. In case of Frequency shift key, the difference between two frequency is represented as_____.
2

509. _____category of coaxial cable is used for thin Ethernet.
RG-58

510. Cellular telephone uses_____ waves for communication.
Radio waves

511. _____mode of serial transmission guarantees fixed rate data.
Isochronous

512. Router is a network device which operates on the_____ layers of the TCP\IP protocol suit. Network

513. _____ layer is responsible for the creating of the datagrams.
Network

514. In virtual circuit approach when a frame enters a switch and when it leaves a switch its VCI always_____.
Remain the same

515. According to stats, fewer than_____ crossbar points can be used at once.
25%

516. Data format used at Transport layer of TCP\IP protocol suit is called_____.
Packet

517. A virtual circuit network operates on _____ layer.
Application

518. Cable TV networks use_____ cables.
Coaxial

519. _____ Normally used for long-distance data transfer.
Both parallel and serial data transmission

520. _____ is a block coding method.
8B\10B

521. TCP\IP was chosen to be the official protocol of internet _____.
1983

522. To measure the data rate _____ theoretically formula(s)Were developed.
Four

523. In FSK, Baud rate is less than or equal to _____ rate.
None of these Given

524. _____ signal is represented by the discrete values.
Digital

525. Electromagnetic waves ranging in frequencies between 3 kHz and 1 GHz are called_____. Radio waves

526. Suppose a signal is amplitude then the value od decibel will be _____.
Positive

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527. _____ technique does not follows analog conversion.
QAM
528. In Pulse Code Modulation (PCM), the sampling is dependent on_____.
Amplitude
529. _____ is the sub type of Time Division Multiplexing Technique.
Statistical TDM
530. Modulation of analog signal is needed if the medium is _____ in nature.
Band pass
531. Quadrature Amplitude Modulation (QAM) is the combination of_____ and _____. ASK-FSK
532. There _____ components of data communication system.
5
533. QPSK stands for_____.
Quadrature phase shift key
534. To calculate the data rate for noisy channel_____ formula is used.
Shannon
535. Most commonly used connector for twisted pair cable is _____.
RJ-45
536. Binary Amplitude Shift Keying is also called as:
On-Off Keying
537. Some manufacturers provide a special port called the_____.
IrDA
538. To calculate the data rate for noiseless channel _____ formula is used.
Nyquist
539. Two PCs and one printer are connected in a network within a room, it is an example of _____.
LAN
540. Analog the following cables given, _____ cable provides highest bandwidth and less attenuation.
Fiber optical
541. To calculate the data for noisy channel_____ formula is used.
Shannon
542. In circuit switched networks we have low efficiency but minimal _____.
Delay
543. Signals travel through fiber optic cable are in the form of_____.
Light
544. Polar encoding scheme uses_____ voltage level.
1
545. TCP\IP protocol suit consists of _____ layers.
5

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546. Bandwidth in hertz is the range of_____ contained in a composite signal.
Frequencies

547. _____ is an example of a host in a network.
Computer

548. Set of rules to be followed for effective communication is called_____.
Protocol

549. _____ is NOT an example of a connecting device.
TCP

550. When an antenna transmits radio waves, they are propagated in _____.
Only up and down direction

551. Which one of the following is not a bipolar encoding level?
One

552. _____and_____ are the two types of addressing in virtual circuit approach.
Local, Global

553. In transmission implements_____ noise occurs from other sources like motors and appliances etc.
Cross talk

554. In computer network the stations are connected to each other in such a way that each station is connected to every other station through dedicated links. This makes_____.
Bus

555. In scrambling coding scheme, the number of pulses replacing the bits will be_____? Equal to pulses

556. In the context of analog to analog signal conversation technique. “PM” Stands for_____. Phase modulation

557. _____ relatively measurement the strength of two signals. Decibel

558. Datagram approach and circuit approach are two popular approaches which lead us to_____.
Packet switching

559. If data is to be 1 Mbps then what will be the minimum bandwidth required for NRZ-I coding scheme?
500khz

560. In virtual circuit approach when frame enters a switch and when it leaves a switch its VCi always_____.
Remain the Same

561. A common bipolar coding scheme is called_____
AMI

562. _____ means loss of energy in signal.
Attenuation

563. The conversion of analog simple of the signal into digital form is called _____ process. Sampling

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564. A local telephone network use _____network.
Circuit switched

565. In Amplitude Shift Keying. _____of the signal is/are changed.
Amplitude

566. In frequency domain plot, which value is plot on Y-axis?
Amplitude

567. In pulse code modulation the term sampling can also be referred as_____.
Pulse Amplitude Modulation

568. Switch is a network device which operates on the _____layer of TCP/IP protocol suit.
Data link

569. In analog transmission of digital data, the required bandwidth is always proportional to the signal rate expect in _____ a digital to analog conversion technique.
ASK

570. WDM stands for_____.
Wavelength Division Multiplexing

571. _____ does not follows analog to analog conversion.
QAM

572. On a communication link, different channels are separates by unused strips of bandwidth called as_____.
Guard band

573. _____ layer converts frames coming from Data Link Layer into bits and sends

574. Them on the transmission medium
Physical

575. Wavelength binds the_____ of a simple sine wave to the propagation speed of the medium.
Period of the frequency

576. The bandwidth delay product define the number of bits that can fill the_____.
Network

577. The size of the packet determined by the network and _____.
Governing protocol

578. To improve the performance of line coding _____coding was……?
Block coding

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

580. _____is normally used where speed is priority in data transfer.
Hybrid transmission

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581. 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. Mesh

582. Some manufacturer provide a special port called the_____port that allows a wireless keyboard to communicate with a PC.
IrDA

583. Current technology supports_____ modes for propagation of light.
Two

584. We quantize the sampling output into certain levels based on range of_____ and required accuracy.
Amplitude

585. _____is the Nyquist bit rate formula for noiseless channel.
BitRate=2*Bandwidth*log2 L

586. A frequency is called _____, if the rate of change in sine wave Is Instantaneous.
Infinite frequency

587. Which multiplexing technique involves signals composed of light beams?
WDM

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

589. Entire band in United States is regulated by_____ authorities.
FCC

590. Two stations are connected via a secure link in which messages are encrypted from source to the destination message is called————
Protocol

591. Simultaneous transmission of multiple signal across a single data link is called——-
Multiplexing

592. In NRZ-1 the signal is inverted if ————- is encountered.
1

593. ————- Protocol suite is being used by the modern internet communication
TCP/IP

594. In the frequency shift keying, ————- remain(s) constant.
Amplitude

595. In ——— signal changes its shape or form.
Distortion

596. ——— coding scheme are useful for LAN but not for long ranges.
Biphase

597. In ——— TDM, each input connection has an allotment in the output even if is not sending data.
Synchronous

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598. ————————- is a type of serial transmission in which data bits are transmitted as a continues stream in time with a master clock. Start bits, stop bits, and gaps are not used. Transmitter and receiver time is sync.
Isochronous

599. ————- Relative measures the strength of two signals.
Decibel

600. When the bandwidth of a link is greater than the combined bandwidths of the signals, we use ————————- multiplexing.
Frequency division

601. ————— is an example of host in a network.
Computer

602. On a communication link, different channels are separated by unused strips of bandwidth called as ————-.
Guard band

603. The conversion of analog sample of the signal into digital form is called ———— process. Quantizing and sampling

604. In star based network comprising of four computers and on switch, total number of cables needed will be ———-
4

605. The logical connection between the peer layers is ———- connection.
Direct

606. In ———— TDM, slots are dynamically allocated to the connected stations to improve bandwidth efficiency.
Statistical

607. According to stats, lower than ————————- crossbar point can be used at once
25%

608. ————— Category of coaxial cable is used for cable TV.
RG-59

609. ————— is sometimes called the bit rate.
Data rate

610. Uni polar, polar and bipolar are the types of ————————
NRZ-I

611. Router is a network device which operates on the ———— layer of the TCP/IP protocol.
Network

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

613. When the bandwidth of a link is greater than combined bandwidths of the
Frequency division

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

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DSSS

615. ———— Cable is used in wavelength division multiplexing.
Fiber optic

616. VCI address is ———— address in virtual circuit approach.
Global

617. In baseband transmission, a digital signal is transmitted as ————.

618. Digital signal

619. telephone network use ————- network.
Circuit switched

620. Entire band in United states is regulated by ———— authorities.
FCC

621. ———— are used for multicast communication, such as radio and television.
Radio waves

622. To calculate the data rate foe noiseless channel ———— formula is used-
Nyquist

623. In an analogue hierarchy to carry voice channels, a super group _____ bandwidth.60kHz

624. Which one of following is a scrambling coding technique?
B8ZS

625. According to the Fourier analysis, frequencies obtained after decomposition of digital signals are_____.
Discrete

626. Low pass channel has_____ bandwidth between two stations.
Shared

627. _____ is the heart of blocking code.
Coding

628. Wireless transmission can be divided into_____ broad groups.
Three

629. Wiring used for transmission modes depends upon_____.
Latency

630. If a digital transmission system is sending five bits in every half a second, the bit-rate of the system.
5 bps

631. If the message going to pass through a packet-switched network, it can be divided into packets of_____.
Both fix and Variable size

632. In an analogue hierarchy to carry voice channels, a group can carry _____voice channels.
12

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633. QUESTION: In optical fiber a glass or plastic core is surrounded by a _____.
Cladding

634. In transmission impairments _____ noise occurs from other sourcelike
Induced

635. _____ is a digital process that allows connections to share the high bandwidth of a link.
TDM

636. Bandwidth in hertz in the range of_____ contained in a composite signal.
Frequencies

637. LAN stands for _____.
Local Area Network

638. Demultiplexer is a_____ device.
One to many

639. Mr. Asif while sitting in Lahore is linking with his friend in Dubai through Skype is a_____.
Wide Area Network

640. In _____ modulation, frequency and amplitude remain constant.
Amplitude

641. The bandwidth-delay product defines the number of bits that can fill the _____.
Link

642. If a digital-signals has four levels, then we need _____ bits to represent each level.
2

643. Routing is a function of_____ layer.
a. Network

644. _____ relatively measures the strength of two signals.
Decibel

645. Taking off the header from the message is called_____.

Encryption

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

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

648. _____ is the process of converting binary data to a digital signal.
Line coding

649. Low pass channel with _____ bandwidth is not real and is used for theoretical modeling.
Narrow

650. HDB3 falls under which coding scheme?

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Bipolar

651. Unit of phase is_____.

Degree

652. BFSK stands for_____.

Binary Frequency Sift Key

653. _____ is NOT an example of connecting device.

TCP

654. Coaxial cables are categorized by their_____ ratings.

Electronic Industries Association (EIA)

Amplitude modulation (AM)

Frequency modulation (FM)

Radio Government (RG

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

Capacity=Bandwidth*log2(1+SNR)

656. Which one of the following is not among the required phases for the actual communication in a circuit switched network?

Protocol

657. A common bipolar encoding scheme is called _____.

AMI

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

2 kHz

659. In _____ systems, resources are allocated on demand.

Circuit switching

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660. A fiber-optic cable transmit signals in the form of_____.
Light

661. Composite wave can be used to send _____.
Frequency

662. Routing is the function of _____ layer.
Network

663. A virtual-circuit network operates on _____layer.
Datalink

664. In TCP\IP model, the Physical Layer exchanges data in the form of _____.
Bits

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

666. If a digital signal has four levels, the we need _____bits to represent.
2

667. We can have combination of_____ possible codes with a 5-bit code.
32

668. There are _____categories of multiplexing.
3

669. Top most organization that provides support for the Internet Standard process is called_____.
IETF

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

Both-fix and variable size

671. ____ data moves faster and timing errors are less frequent because the transmitter and receiver time is synced.
Isochronous

672. In frequency modulation, the frequency of the oscillator changes according to the_____.
Input Voltage

673. Binary Amplitude Shift Keying also called as:
On-Off Keying

674. In _____ each station is allocated a time slot during which it can send data
TDMA…….confirm

675. PAP and CHAP are used by __ as Authentication Protocols.
PPP……confirm

676. In each character protocol each character of frame is encoded using ____ coding system .

Bit-oreinted

677. IN MAC, when nodes use a multi-point or broadcast link, we need a _____ to coordinate access to the link.

Multiple-access protocol/……confirm

678. The orginal Etherrnet technology with the data rate of 10 MBps is called_____?

Standard Ethernet….confirm

679. _____ uses fiber-optic cable

10base-F….confirm

680. One of the most common protocols for point-to-point access is _____.

PPP……confirm

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

PAP……confirm

682. If duration of noise is decreased during a transmission over noisy channel, fixed data rate of the channel will cause _____ number of bits being impacted by the noise

More…..confirm

683. For carrier sense Multiple Access/Collision Detection (CSMA/CD), we need a restriction on the

Collision size….confirm

684. Stop-and-Wait protocol is used for _____.

Both flow and error control……confirm

685. In hexadecimal notation of Ethernet address, each byte is separated by _____ symbol.

Colon….confirm

686. In a linear block code, the _____ of any two valid codewords creates another valid codeword

XOR…..confirm

687. In the _____ method, the stations in a network are organized in a logical ring.

Token-passing….confirm

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

CSMA……confirm

689. In order to find the location of two errors in an eight bit stream, we have to see _____ different combinations.

28….confirm

690. If we need to correct a single error in an 8-bit data unit, we need to consider _____ possible error locations

16…..confirm

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

Slotted ALoHA…..confirm

692. _____ is the process of converting digital data to digital signals.

Line coding…..confirm

693. In case of higher data rate, the number of impacted bits will be _____.

Higher

694. In _ protocol, the sender sends one frame at a time and wants for an acknowledgment before sending the next one.

Stop-and-wait

695. In block coding we divide our message into blocks of K bits called as _____.

Data words….confirm

696. CDMA stands for _____.

Code division Multiple Access…..confirm

697. ____ is not a function of data link control.

Modulation…..confirm

698. CHAP is an Authentication Protocol, which uses _____ process to authenticate user information.

Three-way……confirm from net

699. In the context of Ethernet address, the source address is always a _____ address.

Unicast…confirm

700. In the context of Ethernet address, the destination address is always a _____ address.

Unicast, multicast, broadcast….confirm

701. _____ transmission technology (based on Ethernet) provides a data rate of 1 billion bits per second.

Gigabit Ethernet….confirm

702. Fast Ethernet has a data rate of ____ Mbps.

100…..confirm

703. In random access method, when two or more than two nodes transmit at the same time when

All the nodes in collision survives

704. Data link layer is divided into _____ sub layers

Two…..confirm

705. If the harming distance between sent and received code word is _____ then it shows that received data is corrupted.

(Is not equal to)0….confirm

706. In order to find hamming distance between two pair of words, _____ logical operation is used.

XOR….confirm

707. Ethernet address is of ___ bytes

6….confirm

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

CSMA/CD……confirm

709. For carrier sense Multiple Access/Collision Detection (CSMA/CD), we need a restriction on the _____.

Frame size…confirm

710. Ethernet address is of _____ bytes

6

711. What was the main drawback in the aloha random access method

Redundancy in data

712. In telephone, network POP stands for

Point-of presence

713. Possession of token gives the station the right to _____.

Send the data

714. In Ethernet, the source address field in the MAC frame is the _ address

Previous station physical

715. Normally the value of Kmax in pure aloha is

15

716. _____ uses thin coaxial cable.

10 base 5

717. MAC stands for ____

Media access control

718. In the context of Ethernet implementations maximum medium length of 10 base-F

2000

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

Standard Ethernet

720. Works with topologies in which one device is designated as a primary station and the other devices are secondary stations

None of the given

721. MAC address is of _____.

48 bits

722. The type of aloha which improves the efficiency of pure aloha is.

Slotted aloha

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

NIC

724. In which controlled access method all data exchange must be made through primary device even when the ultimate destination is a secondary device

Polling

725. In _ each band is reserved for a specific station and it belongs to the station all the time

FDMA

726. In pure aloha the vulnerable time is ___ the frame transmission time

Two times

727. DSL stands for _____.

Digital subscriber line

728. In the context of Ethernet address, the source address is always a _____ address

Multicast

729. The original Ethernet technology with the data rate of 10 Mbps is called

Standard ethernet

730. Which of the following is a correct controlled access method

All options

731. When we represent the data in CDMA if a station Is idle then it sends

0

732. In telephone, network POP stands for _____.

Point of presence

733. What was the main drawback in the aloha random access method

Redundancy data rate

734. _transmission technology based on Ethernet provide a data rrate of 1 billion bits per second

Gigabit Ethernet

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

Polling

736. In telephone, network POP stands for

Point of presence

737. Mac address is of _____

48 bits

738. In _____ collision are avoided by deferring transmission even if the channel is idle

The interframe space

739. POTS stand for _?

Plain old telephone system……confirm

740. Normally the value of Kmax in pure aloha is

15

741. In Ethernet frame both destination and sender addresses are of length

6 byte

742. In _____ each band is reserved for a specific station and it belongs to the station all the time

FDMA

743. The original Ethernet technology with a data rate of 10MBps is called

Standard Ethernet

744. The _ method has the highest chance of collision because two or more stations may find the line idle and send their frames immediately

1 persistent method

745. IN allocated a time slot during which it can send data each station is

TDMA

746. In which controlled access method al data exchanges must be made through primary device even when the ultimate destination is a secondary device

Polling

747. CDMA stands for

Code data multiply access

748. Works with topologies in which one device is designated as a primary station and the other device are secondary stations

Polling

749. In Ethernet, the source address field in the MAC frame is the address

Next destination physical

750. VCI address is _____ address in virtual circuit approach.

Global

751. Traditionally MANs have been implemented using one of the 2 technologies, Circuit Switching and Packet Switching

false

752. In the _____ method, the stations in a network are orgamized in a logical ring.

Token-passing

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

Bus

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

Two times

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

communication channel

756. Analog signals are refers to be _____

Continuous

757. There are _____ types of serial transmission.

2

758. To calculate the data rate for noisy channel _____ formula is used.

Shannon

759. There are three types of Hubs that exist. Which of the following options correctly describes these three?

Passive, Active, Intelligent

760. _____ is the rate of change with respect to time.

Amplitude

761. To control and manage the transfer of data, a protocol called Point to Point Protocol (PPP) is used at the _____ layer.

Network

762. What is the frequency of a sine wave if it completes one cycle in 2 seconds?

0.5

763. _____ relatively measures the strength of two signals.

Pulse Rate

764. Central Hub in a Tree is an _____.

Active hub

765. At the CRC generator, _____ added to the data unit before the divisional process.

0s are

766. A broadcast signal is received by the orbiting satellites which rebroadcasts _____.

none of the given

767. The flag in PPP is a byte that needs to be _____ whenever it appears in the data section of the frame.

Escaped

768. In _____, a signal is directed straight from antenna to antenna.

Line of sight propagation

769. Which of the following consist of just one redundant bit per data unit?

Simple Parity Check

770. The term _____means that only one bit of a given data unit is changed from 1 to 0 or from 0 to 1.

Single Bit Error

771. Flow control is needed to prevent _____.

Overflow of the receiver buffer

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772. Transmission Control Protocol is a(n) _____ layer protocol.

Network

773. A fiber -optic cable transmit signals in the form of _____.

Light

774. Possession of TOKEN gives the station the right to _____.

Send the data

775. The inversion of the level at 1 bit is called as _____.

NRZ-I

776. What was the main draw back in ALOHA Random-Access method?

All of the given

777. Data is transmitted using light through a _____ cable.

fiber-optic

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

Slotted ALOHA

779. In OSI model headers are added at layer _____.

6,5,4,3,2 only

780. Is there any difference between Data communication and telecommunication are network?

No

781. _____ is an Authentication Protocol, which is used by the PPP to authenticate passwords.

PAP

782. Which level of the TCP/IP reference model routes data/information across a network channel?

Network Layer

783. In ASK, both _____ and _____ remain constant.

Frequency, Phase

784. Which error detection method consists of a parity bit for each unit as well as an entire data unit of parity bits?

Longitudinal Red Check (LRC)

785. Baud rate is greater than or equal to the bit rate.

False

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

BNC

787. In even parity check code, the value of syndrome is _____ if the number of 1s is even.

0

788. What is the period of a Sine wave having frequency of 10 Hz?

0.1

789. In _____, both peak amplitude and frequency remains constant as the phase changes.

PSK

790. There are _____types of guided media.

3

791. _____ is responsible for governing node to node communication.

Data Link layer

792. TROPOSHERE is the layer of atmosphere above the troposhere but below space

False

793. Terminal, microprocessor, computer, printer or any other device that generates or consumes digital data is known as _____

DTE

794. Normally the value of Kmax in pure ALOHA is _____.

15

795. Sampling means measuring _____ of signal at equal intervals

Amplitudes

796. A sine wave is _____.

periodic and continuous

797. The inversion of the level represents a 1 bit in _____ encoding

NRZ-I

798. To make sure that source does not overwhelm destination by sending data faster than it can be handled and processed is called?

Flow Control

799. Time domain plot show changes in signal phase with respect to time.

false

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

Polling

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

Log L

802. _____ category of coaxial cable is used for Cable TV.

RG-11

803. The level of signal is always positive in NRZ encoding.

false

804. Radio is an example of _____ signal conversion.

Analog to analog

805. Analog To Analog Conversion Methods include _____.

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AM, PM and FM

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

Standard Ethernet

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

Segmentation

808. By using _____ system, change in the file contents during file transmission can be avoided.

Error Detection and Correction

809. In order to find the location of two errors in an eight bit stream, we have to see _____ different combinations.

28

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

Contention Window

811. _____ is used in the Stop-and-Wait protocol to overcome the issue of duplication.

Frame sequencing and Acknowledgement numbering

812. Which one of the following is a correct-access method?

Reservation

813. In the encoding where positive to negative transition is one and vice versa is zero.

None of given

814. If the window size is 63 in go-back N ARQ then what is the range of sequence number?

0 to 63

815. Following characteristics fully describe _____, Amplitude Period/Frequency Phase

Sine Waves

816. Digitizing an Analog Signal is called _____.

Analog-to-Digital Conversion

817. At the CRC checker, _____ means that the data unit is damaged.

A nonzero remainder

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

CDMA/CD

819. Human voice is example of _____ signal.

Analog

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

Input lines

821. A _____ modem is used to connect two DTEs directly.

'NULL

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822. If we need to correct a single error in an 8-bit data unit, we need to consider _____ possible error locations.

16

823. Asynchronous TDM is efficient only when the size of the time slot is kept relatively _____.

Large

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

Stop-and-Wait

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

TDMA

826. The extra bits added with the original data for error detection/correction are called _____.

Redundant bits

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

N(N+1)

828. _____ is sometimes called the bit rate.

Data rate

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

All of the given

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

RG-58

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

Line discipline

832. Session layer is responsible for _____.

Maintaining the connection

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

Isochronous

834. Data Link layer provides services to the _____ layer.

Network

835. The _____ is the number of signal elements sent per unit time.

Signal rate

836. The logical connection between the peer layers is _____ connection.

Direct

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

0.2

838. A sine wave is defined by _____ characteristics.

3

839. If duration of noise is decreased during a transmission over noisy channel, fixed data rate of the channel will cause _____ number of bits being impacted by the noise.

More

840. S-frames in High-Level Data Link Control (HDLC) are only used to transfer _____ information.

Control

841. The _____ generates the data and passes it along with any control information to a _____.

DTE, DCE

842. The type of ALOHA which improves the efficiency of Pure ALOHA is _____.

Slotted ALOHA

843. What is the period of a Sine wave having frequency of 2 Hz?

0.5

844. WDM stands for _____.

Wavelength Division Multiplexing

845. Latency is made of _____ components.

Two

846. The logical connection between the peer layers is _____ connection.

Tengible

847. In line discipline after the data transmission, the sending system finishes with an _____ frame.

EOT

848. _____ of a signal is the collection of all the component frequencies it contains.

Frequency spectrum

849. CHAP is an Authentication Protocol, which uses _____ process to authenticate user information.

Three-way

850. RZ stands for _____.

Return ot Zero

852. In _____ each band is reserved for a specific ststion, and it belongs to the station all the time.

FDMA

853. In TCP/IP protocol suite, the process of adding header at each layer on sending side is known as _____.

Packetizing

854. In Block coding we divide our message into blocks of k bits called as _____.

Data words

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

Speed

856. Error correction is more _____ than the error detection.

Difficult

857. AM signal requires _____ the BW of original signal

Twice

858. Asynchronous transmission is _____.

Slow

859. The Internet is _____.

a global network of computers networks

860. Time division multiplexing is used in _____ systems.

Digital

861. Radio wave transmission utilizes _____ different types of propagation.

Five

862. Checksum is an error-detection technique that can be applied to a message of _____ length.

Any

863. At the Application layer, object/information is in the form of _____.

Packet

864. POST stand for _____?

Plain Old Telephone Service

865. Which of the following statement is correct?

Digital signals are less prone to Noise

866. In selective-reject ARQ, only the specific damaged or lost frame is _____.

Retransmitted

867. In ASK correct formula for calculating the bandwidth ia as _____.

B=(1+d)S

868. Encoding digital data into digital signals is called _____.

Digital-to-Digital Conversion

869. If the Hamming distance between sent and received code word is _____, then it shows that received data is corrupted.

≠ 0

870. Quadrature Amplitude Modulation (QAM) is the combination of _____ and _____.

FSK, PSK

871. PSK is susceptible to the noise degradation.

False

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872. _____ works with topologies in which one drvice is designated as a primary station and the other devices are secondary stations.

Polling

873. No matter whether the link is dedicated or broadcast, data link control (DLC) layer provides services between _____.

Two adjacent nodes

874. CDMA stands for _____.

Code Division Multiple Access

875. If users must take turns using the link, then it is called Spatial Sharing.

false

876. GO-BACK-N protocol is one of the _____ layer protocols, which is used to control the flow of data during the transmission.

Network

877. In _____ a dedicated communication path is established between two stations through the nodes of the network

Circuit switching

878. Signals travel through fiber optic cable are in the form of _____.

Light

879. _____ contains a repeater.

Active hub

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

Both Phase and Frequency

881. _____ is/are un-reliable protocol(s).

IP and UDP

882. _____ is not a function of Data Link Control.

Modulation

883. Each computer on the Internet has a unique numeric address called a(n) _____.

IP address

884. dB is negative if a signal is _____.

Attenuated

885. We can have _____ different groups with a 4 bit block.

8

886. Line Configuration refers to the way two or more devices attach to a _____.

Link

887. Error detection and correction are the services provided by _____ layer.

Data link layer

888. Which of the following sublyer resolves the contention for the shared media.

MAC

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889. There are _____ basic categories of multiplexing.

3

890. Low pass channel has _____ bandwidth between two stations.

Dedicated

891. BSC supports _____ transmission using _____ flow control.

Half-duplex, Stop and wait ARQ

892. Quantization is a method of assigning _____ values in a specific range to sampled instances.

Integral

893. _____ encoding is almost obsolete today

Unipolar

894. YMODEM has _____ Byte of data unit.

1024

895. Like Data link layer, _____ is also responsible for Flow control.

Transport Layer

896. In CRC there is no error if the remainder at the receiver is _____.

Zero

897. _____ is normally used where speed is priority in data transfer.

Serial data transmission

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

Equal to

899. A portion of the path that carries TX between a given pair of devices is known as _____.

Channel

900. What is the Bandwidth of a periodic signal if it is decomposed into 4 sine waves with frequencies 200, 400, 600 and 800?

600

901. _____ is the process of converting digital data to digital signals.

Line coding

902. _____ transmission technology (based on Ethernet) provides a data rate of 1 billion bits per second.

Gigabit Ethernet

903. Congestion Control is a feature of layer(s).

All mentioned

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

Two times

905. What is the Bandwidth of a periodic signal if it is decomposed into 4 sine waves with frequencies 300, 600, 900 and 1200?

900

906. _____ signal can take infinite levels of intensity over time.

Analog

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

Metropolitan Area Network

908. Which layer is concerned with the syntax and semantics of info exchange between two systems?

Presentation

909. Time domain shows changes in _____.

signal amplitude w.r.t time

910. In ASK, Noise usually affects the _____.

Amplitude

911. In analog transmission, the base signal is called the_____.

Carrier Signal

912. Which of the following is most affected by noise?

ASK

913. In Synchronous TDM, Time slots are not same in number as input devices.

False

914. The flag in PPP is a byte that needs to be _____ whenever it appears in the data section of the frame.

Escaped

915. Guard bands are used in _____ multiplexing technique, to avoid overlapping of frequency bands assigned to each user.

FDM

916. DLC in Data Link Layer stands for _____.

Data Link Control

917. In Pulse Code Modulation (PCM), the sampling is dependent on _____.

Signal Rate

918. Digital signals are refered to be _____.

Discrete

919. Two or more computers connected so that they can communicate with each other and share information is called a _____.

network

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

Checksum

Simple Parity Check

921. WDM stands for _____.

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Wave Division Multiplexing

922. Analog refers to something that is continuous in _____.

Time

923. What is the frequency of a sine wave if it completes one cycle in 5 seconds?

0.2

924. In an analog hierarchy to carry voice channels, a group can carry _____ voice channels.

20

925. STP is more expensive than UTP and is less susceptible to noise.

True

926. Switch is a network device which operates on the _____ layer of the TCP/IP protocol suite.

Data link

927. _____ are used to exchange session management and control information between connected devices.

U-frames

928. The message 1110 sent by a source is received by a destination as 1011. This is _____ type of error.

Burst

Take Care
Happy learning &
Keep Smiling
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