

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

DATA COMMUNICATION & NETWORKING

Cs601 Solved MCQS
New Topics
Solved By Asma

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CS601-700 Solved MCQs

1. In a _____ connection, more than two devices can share a single link.

- a. Point-to-point
- b. Primary
- c. Multipoint
- d. Secondary

answer(c): Multipoint

2. Communication between a computer and a keyboard involves _____ transmission

- a. Full-duplex
- b. Half-duplex
- c. Simplex
- d. Automatic

answer(c): Simplex

3. In a network with 25 computers, which topology would require the most extensive cabling?

- a. Star
- b. Mesh
- c. Bus
- d. Ring

answer(b): Mesh

4. Which topology requires a central controller or hub?

- a. Star
- b. Mesh
- c. Bus
- d. Ring

answer(a): Star

5. The _____ is the physical path over which a message travels.

- a. Protocol
- b. Medium
- c. Signal
- d. All of the above

answer(b): Medium

6. Which organization has authority over interstate and international commerce in the communications field?

- a. ITU-T
- b. IEEE
- c. ISO
- d. FCC

answer(d): FCC

7. The information to be communicated in a data communications system is the _____

- a. Medium
- b. Protocol
- c. Transmission
- d. Message

answer(d): Message

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8. Frequency of failure and network recovery time after a failure are measures of the _____ of a network.

- a. Performance
- b. Security
- c. Reliability
- d. Feasibility

answer(c): Reliability

9. In _____ transmission, the channel capacity is shared by both communicating devices at all times.

- a. Full-duplex
- b. Simplex
- c. Half-duplex
- d. Half-Simplex

answer(a): Full-duplex

10. An unauthorized user is a network _____ issue.

- a. Performance
- b. Reliability
- c. Security
- d. All of the above

answer(c): Security

11. Which topology requires a multipoint connection?

- a. Mesh
- b. Star
- c. Ring
- d. Bus

answer(d): Bus

12. A television broadcast is an example of _____ transmission.

- a. Half-duplex
- b. Full-duplex
- c. Simplex
- d. Automatic

answer(c): Simplex

13. A _____ connection provides a dedicated link between two devices.

- a. Multipoint
- b. Point-to-Point
- c. Primary
- d. Secondary

answer(b): Point-to-Point

14. A cable break in a _____ topology stops all transmission.

- a. Mesh
- b. Star
- c. Primary
- d. Bus

answer(d): Bus

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Chapter 2:Network Models

15. The _____ layer changes bits into electromagnetic signals.

- a. **Physical**
- b. Transport
- c. None of the above
- d. Data link

answer(a): Physical

16. The physical layer is concerned with the transmission of _____ over the physical medium.

- a. Programs
- b. Protocols
- c. **Bits**
- d. Dialogs

The correct answer is c

17. Mail services are available to network users through the _____ layer.

- a. Data link
- b. Physical
- c. **Application**
- d. Transport

The correct answer is c

18. As the data packet moves from the lower to the upper layers, headers are _____.

- a. Added
- b. Rearranged
- c. Modified
- d. **Subtracted**

The correct answer is d

Your answer is b

19. As the data packet moves from the upper to the lower layers, headers are _____.

- a. Removed
- b. **Added**
- c. Rearranged
- d. Modified

The correct answer is b

20. The _____ layer lies between the network layer and the application layer.

- a. Data link
- b. Physical
- c. **Transport**
- d. None of the above

The correct answer is c

21. Layer 2 lies between the physical layer and the _____ layer.

- a. Data link
- b. **Network**
- c. Transport
- d. None of the above

The correct answer is b

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22. When data are transmitted from device A to device B, the header from A's layer 4 is read by B's _____ layer.

- a. Application
- b. Physical
- c. Transport
- d. None of the above

The correct answer is c

Your answer is a

23. Which layer functions as a liaison between user support layers and network support layers?

- a. Network layer
- b. Transport layer
- c. Physical layer
- d. Application layer

The correct answer is b

24. What is the main function of the transport layer?

- a. Process-to-process delivery
 - b. Node-to-node delivery
 - c. Synchronization
 - d. Updating and maintenance of routing tables
- The correct answer is a

25. Which of the following is an application layer service?

- a. Remote log-in
- b. File transfer and access
- c. Mail service
- d. All the above

The correct answer is d

26. The Internet model consists of _____ layers.

- a. Three
- b. Five
- c. Seven
- d. Eight

The correct answer is b

27. The process-to-process delivery of the entire message is the responsibility of the _____ layer.

- a. Physical
- b. Network
- c. Transport
- d. Application

The correct answer is c

28. The _____ layer is the layer closest to the transmission medium.

- a. Network
- b. Physical
- c. Data link
- d. Transport

The correct answer is b

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Chapter 3: Signals

29. Before data can be transmitted, they must be transformed to _____.

a. **Electromagnetic signals**

- b. Periodic signals
 - c. Aperiodic signals
 - d. Low-frequency sinewaves
- The correct answer is a

30. When one of the components of a signal has a frequency of zero, the average amplitude of the signal _____.

- a. Is less than zero
- b. **Is greater than zero**
- c. Is zero
- d. (a) or (b)

The correct answer is b

31. A periodic signal can always be decomposed into _____.

- a. Exactly an odd number of sinewaves
- b. A set of sine waves, one of which must have a phase of 0°
- c. **A set of sinewaves**
- d. None of the above

The correct answer is c

32. A periodic signal completes one cycle in 0.001 s. What is the frequency?

- a. 1 Hz
- b. 100 Hz
- c. **1 KHz**
- d. 1 MHz

The correct answer is c

33. In a frequency-domain plot, the horizontal axis measures the ____.

- a. **Frequency**
- b. Peak amplitude
- c. Phase
- d. Slope

The correct answer is a

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34. In a time-domain plot, the vertical axis is a measure of ____.

- a. Frequency
- b. Phase
- c. **Amplitude**
- d. Time

The correct answer is c

35. In a time-domain plot, the horizontal axis is a measure of ____.

- a. Signal amplitude
- b. **Time**
- c. Frequency
- d. Phase

The correct answer is b

36. If the bandwidth of a signal is 5 KHz and the lowest frequency is 52 KHz, what is the highest frequency?

- a. 5 KHz
- b. 10 KHz
- c. 47 KHz
- d. **57 KHz**

The correct answer is d

37.

Your answer is a

38. What is the bandwidth of a signal that ranges from 40 KHz to 4 MHz?

- a. **3.96 MHz**
- b. 36 MHz
- c. 360 KHz
- d. 396 KHz

The correct answer is a

39. As frequency increases, the period ____.

- a. **Decreases**
- b. Increases
- c. Remains the same
- d. Doubles

The correct answer is a

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40. When propagation speed is multiplied by propagation time, we get the ____.

- a. Throughput
- b. Wavelength of the signal
- c. Distance a signal or bit has traveled
- d. Distortion factor

The correct answer is c

41. Propagation time is ____ proportional to distance and ____ proportional to propagation speed.

- a. Inversely; directly
- b. Inversely; inversely
- c. Directly; inversely
- d. Directly; directly

The correct answer is c

42. Wavelength is ____ proportional to propagation speed and ____ proportional to period.

- a. Directly; directly
- b. Inversely; directly
- c. Directly; inversely
- d. Inversely; inversely

The correct answer is a

43. Which of the following can be determined from a frequency-domain graph of a signal?

- a. Phase
- b. Power
- c. Frequency
- d. All the above

The correct answer is c

44. Which of the following can be determined from a frequency-domain graph of a signal?

- a. Phase
- b. Bandwidth
- c. Power
- d. All the above

The correct answer is b

45. In a frequency-domain plot, the vertical axis measures the ____.

- a. Frequency
- b. Peak amplitude
- c. Phase
- d. Slope

The correct answer is b

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46. Given two sine waves A and B, if the frequency of A is twice that of B, then the period of B is ____ that of A.

- a. One-half
- b. Twice
- c. The same as
- d. Indeterminate from

The correct answer is

47. The wavelength of green light in air is ____ the wavelength of green light in fiber-optic cable.

- a. Greater than
- b. Less than
- c. Equal to
- d. None of the above

The correct answer is b

48. Using the Shannon formula to calculate the data rate for a given channel, if $C = B$, then ____.

- a. The signal is equal to the noise
- b. The signal is less than the noise
- c. The signal is greater than the noise
- d. Not enough information is given to answer

The correct answer is a

49. A sine wave is ____.

- a. Aperiodic and continuous
- b. Periodic and discrete
- c. Aperiodic and discrete
- d. Periodic and continuous

The correct answer is d

50. If the maximum amplitude of a sine wave is 2 V, the minimum amplitude is ____ V.

- a. 2
- b. 1
- c. -2
- d. Between -2 and 2

The correct answer is c

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51. A signal is measured at two different points. The power is P_1 at the first point and P_2 at the second point. The dB is 0. This means ____.

- a. P_2 is zero
- b. P_2 equals P_1**
- c. P_2 is much larger than P_1
- d. P_2 is much smaller

52. _____ is a type of transmission impairment in which the signal loses strength due to the resistance of the transmission medium.

- a. Distortion
- b. Noise
- c. Decibel

d. Attenuation

The correct answer is d

53. _____ is a type of transmission impairment in which the signal loses strength due to the different propagation speeds of each frequency that makes up the signal.

- a. Attenuation
- b. Noise

c. Distortion

d. Decibel

The correct answer is c

54. is a type of transmission impairment in which an outside source such as crosstalk corrupts a signal.

a. Attenuation

b. Noise

c. Distortion

d. Decibel

The correct answer is b

55.

The _____ has units of meters/second or kilometers/second.

- a. Throughput
- b. Propagation time
- c. Propagation speed**
- d. (b) and (c)

The correct answer is c

56. has units of bits/second.

a. Throughput

- b. Propagation speed
- c. Propagation time
- d. (b) and (c)

The correct answer is a

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57. _____ is a type of transmission impairment in which the signal loses strength due to the different propagation speeds of each frequency that makes up the signal.

e. Attenuation

f. Noise

g. Distortion

h. Decibel

The correct answer is c

58. _____ is a type of transmission impairment in which an outside source such as crosstalk corrupts a signal.

e. Attenuation

f. Noise

g. Distortion

h. Decibel

The correct answer is b

59.

The _____ has units of meters/second or kilometers/second.

a. Throughput

b. Propagation time

c. Propagation speed

d. (b) and (c)

The correct answer is c

60. _____ has units of bits/second.

e. Throughput

f. Propagation speed

g. Propagation time

h. (b) and (c)

The correct answer is a

61. The _____ has units of seconds.

a. Throughput

b. Propagation time

c. Propagation speed

d. (a) and (b)

The correct answer is b

62.

The wavelength of a signal depends on the _____.

a. Frequencies of the signal

b. Medium

c. Phase of the signal

d. (a) and (b)

The correct answer is d

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Chapter 4: Encoding and Modulation

63. Which encoding technique attempts to solve the loss of synchronization due to long strings of 0s?

- a. NRZ
- b. BnZS**
- c. AMI
- d. (a) and (b)

The correct answer is b

64. Block coding can help in ____ at the receiver.

- a. Synchronization
- b. Error detection
- c. Attenuation
- d. (a) and (b)**

The correct answer is d

65. In ____ transmission, bits are transmitted simultaneously, each across its own wire.

- a. Parallel**
- b. Asynchronous serial
- c. Synchronous serial
- d. (a) and (b)

The correct answer is a

66. Unipolar, bipolar, and polar encoding are types of ____ encoding.

- a. Block
- b. Line**
- c. NRZ
- d. Manchester

The correct answer is b

67. ____ encoding has a transition at the middle of each bit.

- a. RZ
- b. Manchester
- c. Differential Manchester
- d. All the above**

The correct answer is d

68. ____ encoding has a transition at the beginning of each 0 bit.

- a. Differential Manchester**
- b. RZ
- c. Manchester
- d. All the above

The correct answer is a

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69. PCM is an example of ____ conversion.

- a. Analog-to-analog
- b. Analog-to-digital**
- c. Digital-to-digital
- d. Digital-to-analog

The correct answer is b

70. If the frequency spectrum of a signal has a bandwidth of 500 Hz with the highest frequency at 600 Hz, what should be the sampling rate, according to the Nyquist theorem?

- a. 500 samples/s
- b. 1000 samples/s
- c. 200 samples/s
- d. 1200 samples/s**

The correct answer is d

71. One factor in the accuracy of a reconstructed PCM signal is the ____.

- a. Number of bits used for quantization**
- b. Signal bandwidth
- c. Carrier frequency
- d. Baudrate

The correct answer is a

72. In asynchronous transmission, the gap time between bytes is ____.

- a. Fixed
- b. A function of the data rate
- c. Variable**
- d. Zero

The correct answer is c

73. Synchronous transmission does not have ____.

- a. A start bit
- b. A stop bit
- c. Gaps between bytes
- d. All the above**

The correct answer is d

74. Which encoding type always has a nonzero average amplitude?

- a. Polar
- b. Bipolar
- c. Unipolar**
- d. All the above

The correct answer is c

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75. Which of the following encoding methods does not provide for synchronization?

a. Manchester

b. NRZ-L

c. RZ

d. NRZ-I

The correct answer is b

76. Which encoding method uses alternating positive and negative values for 1s?

a. Manchester

b. AMI

c. NRZ-I

d. RZ

The correct answer is b

77. In PCM, an analog-to-___ conversion occurs.

a. Analog

b. Digital

c. QAM

d. Differential

The correct answer is b

78. If the maximum value of a PCM signal is 31 and the minimum value is -31, how many bits were used for coding?

a. 4

b. 5

c. 6

d. 7

The correct answer is c

79. RZ encoding involves ___ signal levels.

a. Five

b. Four

c. Three

d. Two

The correct answer is c

80. Which quantization level results in a more faithful reproduction of the signal?

a. 2

b. 8

c. 16

d. 32

The correct answer is d

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81. In _____ transmission, bits are transmitted over a single wire, one at a time.

- a. Asynchronous serial
- b. Synchronous serial
- c. Parallel

d. (a) and (b)

The correct answer is d

82. In _____ transmission, a start bit and a stop bit frame a character byte.

- a. Synchronous serial

b. Asynchronous serial

- c. Parallel

- d. (a) and (b)

The correct answer is b

83. If a symbol is composed of 3 bits, there are _____ data levels.

- a. 2

- b. 4

c. 8

- d. 16

The correct answer is c

84. The Nyquist theorem specifies the minimum sampling rate to be _____.

- a. Twice the bandwidth of a signal

b. Twice the highest frequency of a signal

- c. Equal to the lowest frequency of a signal

- d. Equal to the highest frequency of a signal

The correct answer is b

85. Pulse rate is always _____ the bitrate.

- a. Less than

b. Less than or equal to

- c. Greater than

- d. Greater than or

equal to

The correct answer

is b

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Chapter 5: Multiplexing

86. AM and FM are examples of ____ modulation.

a. Analog-to-analog

- b. Analog-to-digital
- c. Digital-to-digital
- d. Digital-to-analog

The correct **answer** is a

Your **answer** is a

87. In QAM, both phase and ____ of a carrier frequency are varied.

- a. Frequency
- b. Bitrate

c. Amplitude

- d. Baudrate

The correct **answer** is c

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

- a. PSK
- b. FSK
- c. QAM

d. ASK

The correct **answer** is d

89. ASK, PSK, FSK, and QAM are examples of ____ modulation.

- a. Analog-to-analog
- b. Analog-to-digital
- c. Digital-to-digital

d. Digital-to-analog

The correct **answer** is d

90. If the baud rate is 400 for a 4-PSK signal, the bitrate is ____ bps.

- a. 1600

b. 800

- c. 400
- d. 100

The correct **answer** is b

91. If the bit rate for an ASK signal is 1200 bps, the baud rate is

- a. 300

- b. 400
- c. 600

d. 1200

The correct **answer** is d

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92. As the bit rate of an FSK signal increases, the bandwidth ____.

- a. Remains the same
- b. Decreases
- c. Increases**
- d. Doubles

The correct answer is c

93. In 16-QAM, there are 16 ____.

- a. Phases
- b. Combinations of phase and amplitude**
- c. Amplitudes
- d. bps

The correct answer is b

94. Which modulation technique involves tribits, eight different phase shifts, and one amplitude?

- a. FSK
- b. ASK
- c. 4-PSK
- d. 8-PSK**

The correct answer is d

95. If the bit rate for an FSK signal is 1200 bps, the baud rate is ____.

- a. 300
- b. 400
- c. 600
- d. 1200**

The correct answer is d

96. If the bit rate for a QAM signal is 3000 bps and a signal unit is represented by a tribit, what is the baud rate?

- a. 300
- b. 400
- c. 1000**
- d. 1200

The correct answer is c

97. If the baud rate for a QAM signal is 3000 and a signal unit is represented by a tribit, what is the bit rate?

- a. 300
- b. 400
- c. 1000
- d. 9000**

The correct answer is d

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98. If the baud rate for a QAM signal is 1800 and the bit rate is 9000, how many bits are there per signal unit?

- a. 3
- b. 4
- c. 5**
- d. 6

The correct answer is c

99. Given an AM radio signal with a bandwidth of 10 KHz and the highest-frequency component at 705 KHz, what is the frequency of the carrier signal?

- a. 705 KHz
- b. 700 KHz**

- c. 710 KHz
 - d. Cannot be determined from given information
- The correct answer is b

100. A modulated signal is formed by ____.

- a. Changing the carrier wave by the modulating signal**
- b. Quantization of the source data
- c. Changing the modulating signal by the carrier wave
- d. Sampling at the

Nyquist frequency

The correct answer is a

101. If FCC regulations are followed, the carrier frequencies of adjacent AM radio stations are _____ apart.

- a. 5 KHz
- b. 10 KHz
- c. 200 KHz
- d. 530 KHz

102. If FCC regulations are followed, ____ potential FM stations are theoretically possible in a given area.

- a. 50**
- b. 100
- c. 133
- d. 150

The correct answer is a

103. When an ASK signal is decomposed, the result is ____.

- a. An infinite number of sinewaves**
- b. Always one sinewave
- c. Always two sinewaves
- d. None of the above

The correct answer is a

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104. The bandwidth of an FM signal requires 10 times the bandwidth of the ____ signal.

- a. Bipolar
- b. Sampling
- c. Carrier

d. Modulating

The correct answer is d

105. Modulation of an analog signal can be accomplished through changing the ____ of the carrier signal.

- a. Amplitude
- b. Frequency
- c. Phase

d. Any of the above

The correct answer is d

106. For a telephone line, the bandwidth for voice is usually the bandwidth for data.

- a. Less than
- b. Greater than**
- c. Twice
- d. Equivalent to

The correct answer is b

107. For a given bit rate, the minimum bandwidth for ASK is ____ the minimum bandwidth for FSK.

a. Less than

- b. Equivalent to
- c. Greater than
- d. Twice

The correct answer is a

108. What is the object of trellis coding?

- a. To narrow the bandwidth
- b. To increase the data rate
- c. To reduce the error rate**
- d. To simplify

modulation The correct answer is c

109. A modulator converts a(n) ____ signal to a(n) ____ signal.

a. Digital; analog

- b. Analog; digital
- c. PSK; FSK
- d. FSK; PSK

The correct answer is a

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110. A 56K modem can download at arate of _____ Kbps and upload at arate of _____ Kbps.

a. 56.6;33.6

b. 56.6;56.6

c. 33.6;33.6

d. 33.6;56.6

The correct answer is a

111. For FSK, as the difference between the two carrier frequencies increases, the bandwidth ____.

a. Remains the same

b. Decreases

c. Increases

d. Halves

The correct answer is c

112. The bit rate always equals the baud rate in which type of signal?

a. FSK

b. QAM

c. 4-PSK

d. All the above

The correct answer is a

113. Which ITU-T modem standard uses trellis coding?

a. V.32

b. V.33

c. V.34

d. (a) and (b)

The correct answer is a

114. In trellis coding the number of data bits is _____ the number of transmitted bits.

a. Less than

b. More than

c. Equal to

d. Double that of

The correct answer is a

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Chapter 6: Switching

115. Which multiplexing technique transmits digital signals?

- a. WDM
- b. FDM
- c. TDM
- d. None of the above

The correct answer is c

116. Which multiplexing technique shifts each signal to a different carrier frequency?

- a. TDM
- b. FDM
- c. Both (a) and (b)
- d. None of the above

The correct answer is b

117. In TDM, for n signal sources of the same data rate, each frame contains _____ slots.

- a. 0
- b. n
- c. $n + 1$
- d. $n - 1$

The correct answer is b

118.

In TDM, the transmission rate of the multiplexed path is usually _____ the sum of the transmission rates of the signal sources.

- a. 1 less than
- b. Greater than
- c. Less than
- d. Equal to

The correct answer is b

119. DS-1 through DS-4 are _____ while T-1 through T-4 are _____.

- a. Services; signals
 - b. Services; lines
 - c. Services; multiplexers
 - d. Multiplexers; signals
- The correct answer is b

120. The sharing of a medium and its link by two or more devices is called _____.

- a. Modulation
- b. Encoding
- c. Multiplexing
- d. Line discipline

The correct answer is c

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121.

In AT&T's

FDM hierarchy, the bandwidth of each group type can be found by multiplying ____ and adding extra bandwidth for guardbands.

- a. The sampling rate by 4000Hz
- b. The number of voice channels by 4000Hz
- c. The number of voice channels by 8bits/sample
- d. The sampling rate by 8bits/sample

The correct

answer

122. Guard bands increase the bandwidth for.

- a. TDM
- b. FDM
- c. Both (a) and (b)
- d. None of the above

The correct answer is b

123. Which multiplexing technique transmits analog signals?

- a. FDM
- b. TDM
- c. WDM
- d. (a) and (c)

The correct answer is d

124. In a T-1 line, ____ interleaving occurs.

- a. Bit
- b. Byte
- c. DS-0
- d. Switch

The correct answer is b

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

- a. WDM
- b. FDM
- c. TDM
- d. None of the above

The correct answer is a

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Chapter 7: Transmission Media

126. The VLF and LF bands use __ propagation for communications.

- a. Space
- b. Ground**
- c. Sky
- d. Line of sight

The correct answer is b

127. Category 1 UTP cable is most often used in __ networks.

- a. Infrared
- b. Telephone**
- c. Fast Ethernet
- d. Traditional

Ethernet The correct

answer is b

128. BNC connectors are used by __ cables.

- a. Fiber-optic
- b. UTP
- c. STP
- d. Coaxial**

The correct answer is d

129. Which of the following is not a guided medium?

- a. Twisted-pair cable
- b. Fiber-optic cable
- c. Atmosphere**
- d. Coaxial cable

The correct answer is c

130. In an environment with many high-voltage devices, the best transmission medium would be ____.

- a. Twisted-pair cable
- b. Coaxial cable
- c. The atmosphere
- d. Optical fiber**

The correct answer is d

131. __ cable consists of an inner copper core and a second conducting outer sheath.

- a. Coaxial**
- b. Twisted-pair
- c. Fiber-optic
- d. Shielded twisted-

pair The correct

answer is a

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132. In fiber optics, the signal source is __ waves.

a. Very low-frequency

b. Light

c. Radio

d. Infrared

The correct answer is b

133. Smoke signals are an example of communication through ____.

a. A guided medium

b. A refractive medium

c. An unguided medium

d. A small or

large medium

The correct answer is c

134. Which of the following primarily uses guided media?

a. Cellular telephone system

b. Satellite communications

c. Local telephone system

d. Radio broadcasting

The correct answer is c

135. What is the major factor that makes coaxial cable less susceptible to noise than twisted-pair cable?

a. Outer conductor

b. Inner conductor

c. Diameter of cable

d. Insulating material

The correct answer is a

136. The RG number gives us information about ____.

a. Optical fibers

b. Twisted pairs

c. Coaxial cables

d. All the above

The correct answer is c

137. Transmission media are usually categorized as ____.

a. Guided or unguided

b. Fixed or unfixed

c. Determinate or indeterminate

d. Metallic or

nonmetallic

The correct answer is a

e.

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138. The _____ is an association that sponsors the use of infrared waves.

- a. EIA
- b. IrDA**
- c. FCC
- d. PUD

The correct answer is b

139. In an optical fiber, the inner core is _____ the cladding.

- a. Less dense than
- b. Denser than**
- c. The same density as
- d. Another name for

The correct answer is b

140. The inner core of an optical fiber is _____ in composition.

- a. Copper
- b. Bimetallic
- c. Glass or plastic**
- d. Liquid

The correct answer is c

141. When a beam of light travels through media of two different densities, if the angle of incidence is greater than the critical angle, _____ occurs.

- a. Refraction
- b. Reflection**
- c. Incidence
- d. Criticism

The correct answer is b

142. In _____ propagation, the beam of propagated light is almost horizontal, and the low-density core has a small diameter compared to the cores of the other propagation modes.

- a. Single-mode**
- b. Multimode step-index
- c. Multimode graded-index
- d. Multimode single-index

The correct answer is a

143. _____ is the propagation method subject to the greatest distortion.

- a. Single-mode
- b. Multimode step-index**
- c. Multimode graded-index
- d. Multimode single-index

The correct

answer is b

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144. In _____ propagation, the core is of varying densities.

- a. Single-mode
- b. Multimode step-index
- c. **Multimode graded-index**
- d. Multimode single-index

The correct

answer is c

145. When we talk about unguided media, usually we are referring to _____.

- a. Metallic wires
- b. Nonmetallic wires
- c. **The air**
- d. None of the above

The correct answer is c

146. Transmission media are closest to the _____ layer.

- a. Application
- b. **Physical**
- c. Network
- d. Transport

The correct answer is b

147. Radio wave and microwave frequencies range from _____.

- a. 3 to 300 KHz
- b. 300 KHz to 3 GHz
- c. **3 KHz to 300 GHz**
- d. 3 KHz to 3000 GHz

The correct answer is c

148. Optical fibers, unlike wire media, are highly resistant to _____.

- a. High-frequency transmission
- b. Low-frequency transmission
- c. Refraction
- d. **Electromagnetic interference**

The correct answer is d

149. In _____ propagation, low-frequency radio waves hug the earth.

- a. Space
- b. **Ground**
- c. Sky
- d. Line of sight

The correct answer is b

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150. When the angle of incidence is __ the critical angle, the light beam bends along the interface.

- a. More than
- b. Less than
- c. Equal to
- d. None of the above

The correct answer is c

151. A parabolic dish antenna is a(n) __ antenna.

- a. Omnidirectional
- b. Bidirectional
- c. Horn
- d. Unidirectional

The correct answer is d

Chapter 8 : Telephone, Cable, and Satellite Networks

152. The telephone service handled between two LATAs is called __.

- a. An ILEC
- b. An IXC
- c. A CLEC
- d. A POP

The correct answer is b

153. How many crosspoints are needed in a single-stage switch with 40 inputs and 50 outputs? a. 2000

- b. 90
- c. 50
- d. 40

The correct answer is a

154. The ____ is a device that connects n inputs to m outputs.

- a. Crossbar
- b. Crosspoint
- c. Modem
- d. RAM

The correct answer is a

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155. The established telephone company that provided services in a LATA before 1966 and owns the cabling system is called

- _____.
- a. ACLEC
 - b. AnIXC
 - c. An ILEC
 - d. APOP

The correct answer is c

156. In a crossbar with 1000 crosspoints, approximately how many are in use at anytime? a. 100

- b. 250
- c. 500
- d. 1000

The correct answer is b

157. The _____ of a TSI controls the order of delivery of slot values that are stored in RAM.

- a. Crossbar
- b. Crosspoint
- c. Transceiver
- d. Control unit

The correct answer is d

158. Which of the following is a time-division switch?

- a. TSI
- b. TDM bus
- c. Crosspoint
- d. (a) and (b)

The correct answer is d

159. In a time-division switch, a _____ governs the destination of a packet stored in RAM.

- a. Control unit
- b. TDM bus
- c. Crosspoint
- d. Crossbar

The correct answer is a

160. A telephone network is an example of a _____ network.

- a. Circuit-switched
- b. Packet-switched
- c. Message-switched
- d. None of the above

The correct answer is a

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161. The local loop has ____ cable that connects the subscriber telephone to the nearest end office.

- a. Coaxial
- b. Fiber-optic
- c. Twisted-pair
- d. (b) and (c)

The correct answer is c

162. Trunks are transmission media such as ____ that handle the telephone communication between offices.

- a. Twisted-pair cable
- b. Fiber-optic cable
- c. Satellite links
- d. (b) and (c)

The correct answer is d

163. A new telephone company that provides services in a LATA after 1966 is called ____.

- a. An ILEC
- b. An IXC
- c. A POP
- d. ACLEC

The correct answer is d

164.

the end office receives two bursts of analog signals with frequencies of 697 and 1477 Hz, then the number ____ has been punched.

- a. 1
- b. 2
- c. 3
- d. 4

The correct answer is c

165. In ____ circuit switching, delivery of data is delayed because data must be stored and retrieved from RAM.

- a. Time-division
- b. Space-division
- c. Virtual
- d. Packet

The correct answer is a

166. Data from a computer are ____; the local loop handles ____ signals.

- a. Digital; digital
- b. Digital; analog
- c. Analog; analog
- d. Analog; digital

The correct answer is b

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167. To create a _____, combine crossbar switches in stages.

a. TSI

b. Multistage switch

c. Crosspoint

d. Packet switch

The correct answer is b

168. A traditional telephone line has a bandwidth of _____.

a. 2000 Hz

b. 4000 Hz

c. 2000 MHz

d. 4000 MHz

The correct answer is b

Chapter 9 : Flow and Error Control

169. SONET is a standard for _____ networks.

a. Twisted-pair cable

b. Fiber-optic cable

c. Coaxial cable

d. Ethernet

The correct answer is b

170. _____ limit the bandwidth of the local loop to 4 KHz.

a. Fiber nodes

b. Repeaters

c. Filters

d. Hubs

The correct answer is c

171. The actual bit rate of ADSL downstream data is _____.

a. 6 to 30 Kbps

b. 64 Kbps to 1 Mbps

c. 500 Kbps to 8 Mbps

d. 31 Kbps to 255

Mbps

The correct answer is c

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172. _____ is a device at the telephone company site that can packetize data to be sent to the ISP server.

- a. A filter
- b. A splitter
- c. ADSLAM
- d. An ADSL modem

The correct answer is c

173. The standard for data transmission over an HFC network is called ____.

- a. DOCSIS
- b. CMTS
- c. MCNS
- d. ADSL

The correct answer is a

174. DMT is a modulation technique that combines elements of _____ and _____.

- a. FDM; TDM
- b. QDM; QAM
- c. PSK; FSK
- d. FDM; QAM

The correct answer is d

175. The _____ is an HFC network device installed inside the distribution hub that receives data from the Internet and passes them to the combiner.

- a. DOCSIS
- b. MCNS
- c. CM
- d. CMTS

The correct answer is d

176. HDSL encodes data using ____.

- a. 6B/8T
- b. 4B/5B
- c. 2B1Q
- d. 1B2Q

The correct answer is c

177. _____ encoded signal is more susceptible to attenuation than _____ encoded signal.

- a. An AMI; a 2B1Q
- b. An AMI; a 2B2Q
- c. A 2B1Q; an AMI
- d. None of the above

The correct answer is a

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178. Another name for the cable TV office is the ____.

- a. Fibernode
- b. Combiner
- c. Headend
- d. Splitter

The correct answer is c

179. A traditional cable TV network transmits signals ____.

- a. Upstream and downstream
- b. Upstream
- c. Downstream
- d. None of the above

The correct answer is c

180. ____ was designed as an alternative to the T-1 line.

- a. VDSL
- b. SDSL
- c. HDSL
- d. ADSL

The correct answer is c

181. The synchronous payload envelope of an STS-1 frame contains ____.

- a. Pointers
- b. User data
- c. Overhead
- d. (b) and (c)

The correct answer is d

182. ____ has a higher transmission rate in the downstream direction than in the upstream direction.

- a. VDSL
- b. ADSL
- c. SDSL
- d. (a) and (b)

The correct answer is d

183. An HFC network uses ____ as the medium from the switch to the fibernode.

- a. UTP
- b. STP
- c. Optical fiber
- d. Coaxial cable

The correct answer is c

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184. In an HFC network, the distribution hub handles the __ of signals.

- a. Modulation
- b. Distribution
- c. Splitting

d. (a) and (b)

The correct answer is d

185. _____ A TV channel in an HFC network needs a _____ -MHz bandwidth.

- a. 369
- b. 6
- c. 100
- d. 250

The correct answer is b

186. _____ data go from the subscriber to the Internet.

- a. Downstream
- b. Upstream
- c. Midstream
- d. None of the above

The correct answer is b

187. In an HFC network, the upstream data are modulated using the _____ modulation technique.

- a. PCM
- b. QAM
- c. QPSK
- d. ASK

The correct answer is b

188. _____ is suitable for businesses that require comparable upstream and downstream data rates.

- a. SDSL
- b. VDSL
- c. ADSL
- d. (a) and (b)

The correct answer is a

189. SONET is an acronym for _____ Network.

- a. Standard Optical
- b. Symmetric Open
- c. Synchronous Optical
- d. Standard Open

The correct answer is c

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190. The largest portion of the bandwidth for ADSL carries ____.

a. Voice communication

b. Downstream data

c. Upstream data

d. Control data

The correct answer is b

191. In a SONET system, ____ can remove signals from a path.

a. An add/drop multiplexer

b. A repeater

c. An STS multiplier

d. A regenerator

The correct answer is a

Chapter 10 : Access Method

192. Which of the following best describes a single-bit error?

a. A single bit is inverted.

b. A single bit is inverted per transmission.

c. A single bit is inverted per data unit.

d. Any of the above

The correct answer is c

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

a. Simple parity check

b. Checksum

c. Two-dimensional parity check

d. CRC

The correct answer is b

194. Which error detection method consists of just one redundant bit per data unit?

a. Two-dimensional parity check

b. CRC

c. Simple parity check

d. Checksum

The correct answer is c

195. Which error detection method involves polynomials?

a. CRC

b. Simple parity check

c. Two-dimensional parity check

d. Checksum

The correct answer is a

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196.If the ASCII character G is sent and the character D is received, what type of error isthis?

- a. Single-bit
- b. Multiple-bit
- c. Burst**
- d. Recoverable

The correct answer is c

197.If the ASCII character H is sent and the character I is received, what type of error isthis?

- a. Burst
- b. Recoverable
- c. Single-bit**
- d. Multiple-bit

The correct answer is c

198.In cyclic redundancy checking, what is theCRC?

- a. Theremainder**
- b. Thedivisor
- c. Thequotient
- d. Thedividend

The correct answer is a

199.Which error detection method involves the use of paritybits?

- a. Simple paritycheck
- b. Two-dimensional paritycheck
- c. CRC
- d. (a) and(b)**

The correct answer is d

200.In cyclic redundancy checking, thedivisoris____ theCRC.

- a. The same sizeas
- b. 1 bit morethan**
- c. 1 bit less than
- d. 2 bits morethan

The correct answer is b

201. If the data unit is 111111, the divisor 1010, and the remainder 110, what is the dividend at the receiver? a. 111111011

- b. 1010110
- c.111111110**
- d.110111111

The correct answer is c

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

- a. Simple parity check
- b. Checksum
- c. Two-dimensional parity check
- d. CRC

The correct answer is c

203. If the data unit is 11111 and the divisor 1010, what is the dividend at the transmitter? a. 111110000

b. 11111000

- c. 111111
- d. 111111010

The correct answer is b

204. If odd parity is used for ASCII error detection, the number of 0s per 8-bit symbol is ____.

- a. Indeterminate
- b. 42
- c. Even

d. Odd

The correct answer is d

205. In CRC there is no error if the remainder at the receiver is ____.

- a. Nonzero
- b. The quotient at the sender
- c. Equal to the remainder at the sender

d. Zero

The correct answer is d

206. At the CRC generator, ____ added to the data unit after the division process.

- a. 0s are
- b. 1s are
- c. The CRC remainder is

d. The polynomial is
The correct answer is c

207. The sum of the checksum and data at the receiver is ____ if there are no errors.

- a. -0
- b. +0
- c. The complement of the checksum
- d. The complement of the data

The correct answer is a

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208. In CRC the quotient at the sender_.

- a. Becomes the dividend at the receiver
- b. Becomes the divisor at the receiver
- c. Is the remainder

d. Is discarded

The correct answer is d

209. The Hamming code is a method of_.

- a. Error detection
- b. Error correction
- c. Error encapsulation

d. (a) and (b)

The correct answer is d

210. At the CRC checker, ___ means that the data unit is damaged.

- a. A string of alternating 1s and 0s

b. A nonzero remainder

- c. A string of 0s
- d. A string of 1s

The correct answer is b

211. Which error detection method can detect a single-bit error?

- a. Simple parity check
- b. Two-dimensional parity check
- c. CRC

d. All the above

The correct answer is d

212. Which error detection method can detect a burst error?

- a. The parity check
- b. Two-dimensional parity check
- c. CRC

d. (b) and (c)

The correct answer is d

213. At the CRC generator, ___ added to the data unit before the division process.

- a. A polynomial is
- b. A CRC remainder is
- c. 0s are
- d. 1s are

The correct answer is c

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Chapter 11 : Wired Local Area Networks

214. HDLC is an acronym for __.

- a. High-duplex line communication
- b. Half-duplex digital link combination

c. High-level data link control

- d. Host double-level circuit
- The correct answer is c

215. Flow control is needed to prevent __.

- a. Overflow of the sender buffer

b. Overflow of the receiver buffer

- c. Bit errors
 - d. Collision between sender and receiver
- The correct answer is b

216. In a Go-Back-N ARQ, if the window size is 63, what is the range of sequence numbers?

- a. 1 to 63
- b. 1 to 64
- c. 0 to 63**
- d. 0 to 64

The correct answer is c

217. For a sliding window of size $n - 1$ (n sequence numbers), there can be a maximum of __ frames sent but unacknowledged.

- a. 0
- b. n**
- c. $n - 1$
- d. $n + 1$

The correct answer is b

218. When data and acknowledgment are sent on the same frame, this is called __.

- a. Backpacking
- b. Piggybacking
- c. Piggybacking**
- d. A good idea

The correct answer is c

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219. In _____ ARQ, if a NAK is received, only the specific damaged or lost frame is retransmitted.

a. Go-Back-N

- b. Stop-and-Wait
- c. Selective Repeat
- d. (a) and (b)

The correct answer is a

220. ARQ stands for _____.

a. Automatic repeat request

- b. Automatic retransmission request
- c. Acknowledge repeat request
- d. Automatic

repeat quantization The correct answer is a

221. In Go-Back-N ARQ, if frames 4, 5, and 6 are received successfully, the receiver may send an ACK _____ to the sender.

- a. 5
- b. 6
- c. 7

d. Any of the above

The correct answer is d

222. The shortest frame in HDLC protocol is usually the _____ frame.

- a. Information
- b. Management
- c. Supervisory
- d. None of the above

The correct answer is c

223. The address field of a frame in HDLC protocol contains the address of the _____ station.

- a. Primary
- b. Secondary
- c. Tertiary
- d. (a) or (b)

The correct answer is b

224. The HDLC _____ field defines the beginning and end of a frame.

- a. Address
- b. Control
- c. Flag
- d. FCS

The correct answer is c

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225. A timer is set when _____ is (are) sent out.

- a. An ACK
- b. ANAK
- c. A data frame
- d. All the above

The correct answer is c

226. For Stop-and-Wait ARQ, for n data packets sent, _____ acknowledgments are needed.

- a. $n - 1$
- b. $n + 1$
- c. n
- d. $2n$

The correct answer is c

227. What is present in all HDLC control fields?

- a. N(R)
- b. N(S)
- c. Code bits
- d. P/F bit

The correct answer is d

Chapter 12 : Wireless Local Area Networks

228. According to the PPP transition state diagram, options are negotiated in the _____ state.

- a. Networking
- b. Terminating
- c. Establishing
- d. Authenticating

The correct answer is c

229. According to the PPP transition state diagram, verification of user identification occurs in the _____ state.

- a. Networking
- b. Terminating
- c. Establishing
- d. Authenticating

The correct answer is d

230. PAP requires _____ and _____ from the user.

- a. A password; a calculated value
- b. Authentication identification; a calculated value
- c. Authentication identification; a password
- d. A challenge value;

a password
The correct answer is c

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231. According to the PPP transition state diagram, the link is disconnected in the ____ state.

- a. Networking
- b. Terminating**
- c. Establishing
- d. Authenticating

The correct answer is b

232. In the PPP frame, the ____ field defines the contents of the data field.

- a. FCS
- b. Flag
- c. Control
- d. Protocol**

The correct answer is d

233. According to the PPP transition state diagram, exchange of user control and data packets occurs in the ____ state.

- a. Networking**
- b. Terminating
- c. Establishing
- d. Authenticating

The correct answer is a

234. _____, an (a) _____ protocol, establishes and terminates a network layer connection for IP packets.

- a. CHAP; NCP
- b. IPCP; NCP**
- c. NCP; IPCP
- d. SLIP; PPP

The correct answer is b

235. In the PPP frame, the ____ field is similar to that of the U-frame in HDLC.

- a. Flag
- b. Protocol
- c. FCS
- d. Control**

The correct answer is d

236. In the PPP frame, the ____ field has a value of 11111111 to indicate the broadcast address of HDLC.

- a. Protocol
- b. Address**
- c. Control
- d. FCS

The correct answer is b

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237. What is the purpose of LCP packets?

- a. Configuration
- b. Termination
- c. Option negotiation

d. All the above

The correct answer is d

238. _____ is a three-way handshake for user verification.

- a. PPP
- b. CHAP**
- c. PAP
- d. (b) and (c)

The correct answer is b

239. A PAP packet and a CHAP packet can be distinguished by the value of the _____ field of the PPP frame.

- a. Protocol
- b. FCS
- c. Address

d. Control

The correct answer is d

240. In the PPP frame, the _____ field is for error control.

- a. FCS**
- b. Flag
- c. Control
- d. Protocol

The correct answer is a

241. _____ CHAP authentication, the user takes the system's _____ and its own _____ to create a result that is then sent to the system.

- a. Authentication identification; password
- b. Password; authentication identification

c. Challenge value; password

d. Password; challenge value
The correct answer is c

242. If an FDMA network has eight stations, the medium bandwidth has _____ bands.

- a. 1
- b. 2
- c. 8**
- d. 16

The correct answer is c

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243. In the _____ random-access method there is no collision.

- a. CSMA/CD
- b. CSMA/CA
- c. ALOHA
- d. Token-passing

The correct answer is b

244. In the 1-persistent approach, when a station finds an idle line, it _____.

- a. Sends immediately
 - b. Waits 0.1 s before sending
 - c. Waits 1 s before sending
 - d. Waits a time equal to $1 - p$ before sending
- The correct answer is a

245. _____ requires one primary station and one or more secondary stations.

- a. Token ring
- b. Reservation
- c. Polling
- d. CSMA

The correct answer is c

246. In the p-persistent approach, when a station finds an idle line, it _____.

- a. Sends immediately
- b. Waits 1 s before sending
- c. Sends with probability $1 - p$
- d. Sends with probability p

The correct answer is d

247. _____ A network using the CSMA random-access method with p equal to 0.25 will send _____ percent of the time after accessing an idle line.

- a. 50
- b. 75
- c. 100
- d. 25

The correct answer is d

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248.

T

he 1-persistent approach can be considered a special case of the p-persistent approach with p equal to _____.

a. 1.0

b. 2.0

c. 0.1

d. 0.5

The correct answer is a

249. _____ is a random-access protocol.

a. FDMA

b. CDMA

c. MA

d. Polling

The correct answer is c

250.

In the reservation

access method, if there are 10 stations on a network, then there are _____ reservation minislots in the reservation frame.

a. 10

b. 11

c. 5

d. 9

The correct answer is a

251. A Walsh table for 16 stations has a chip sequence of _____ chips.

a. 16

b. 32

c. 4

d. 8

The correct answer is a

252. _____ is a controlled-access protocol.

a. FDMA

b. TDMA

c. CSMA

d. Reservation

The correct answer is d

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253. _____ is (are) a channelization protocol.

- a. FDMA
- b. TDMA
- c. CDMA

d. All the above

The correct answer is d

254. _____ is the access protocol used by traditional Ethernet.

- a. Token ring
- b. CSMA

c. CSMA/CD

- d. CSMA/CA

The correct answer is c

255. The most primitive random access method is ____.

- a. Channelization

b. ALOHA

- c. CSMA

- d. Token passing

The correct answer is b

256. When a collision is detected in a network using CSMA/CD, ____.

- a. The frame is immediately resent
- b. The backoff value is decremented by 1

c. A jam signal is sent by the station

- d. The backoff value is

set to 0

The correct answer is c

257. In the _____ random-access method, stations do not sense the medium.

- a. CSMA/CA

b. ALOHA

- c. CSMA/CD

- d. Ethernet

The correct answer is b

258. When a primary device asks a secondary device if it has data to send, this is called ____.

- a. Backing off

b. Polling

- c. Selecting

- d. Reserving

The correct answer is b

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259.If a TDMA network has eight stations, the medium bandwidth has __ bands.

- a. 1
- b. 2
- c. 8
- d. 16

The correct answer is a

260.If a CDMA network has eight stations, the medium bandwidth has __ bands.

- a. 1
- b. 2
- c. 8
- d. 16

The correct answer is a

261.If an Ethernet destination address is 08-07-06-05-44-33, then this is a address.

- a. Broadcast
- b. Unicast
- c. Multicast
- d. Any of the above

The correct answer is b

262. What is the hexadecimal equivalent of the Ethernet address 010110100001000101010101001100010101010100001111?

- a. 5A-11-55-18-AA-0F
- b. 5A-88-AA-18-55-F0
- c. 5A-81-BA-81-AA-0F
- d. 5A-18-5A-18-55-0F

The correct answer is a

263. Which of the following could not be an Ethernet source address? a. 8A-7B-6C-DE-10-00

- b. 8B-32-21-21-4D-34
- c. EE-AA-C1-23-45-32
- d. 46-56-21-1A-DE-F4

The correct answer is b

264.What is the efficiency of 4B/5B block encoding?

- a. 60 percent
- b. 80 percent
- c. 20 percent
- d. 40 percent

The correct answer is b

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265. Which of the following could not be an Ethernet unicast destination? a. 44-AA-C1-23-45-32

b. 46-56-21-1A-DE-F4

c. 48-32-21-21-4D-34

d. 43-7B-6C-DE-10-00

The correct answer is d

266. What is the efficiency of 8B/10B encoding?

a. 80 percent

b. 20 percent

c. 40 percent

d. 60 percent

The correct answer is a

267. A 10-station Ethernet LAN uses a 4-port bridge if the effective average data rate for each station is 2Mbps.

a. 10

b. 1

c. 2

d. 5

The correct answer is d

268. A 16-station Ethernet LAN uses a four-port bridge. Each station has an effective average data rate of 1.25 Mbps. a. 160

b. 80

c. 40

d. 32

The correct answer is d

269. An 80-station traditional Ethernet is divided into four collision domains. This means that a maximum of

20 stations contend for medium access at any one time.

a. 20

b. 76

c. 80

d. 320

The correct answer is a

270. If an Ethernet destination address is 07-01-02-03-04-05, then this is a _____ address.

a. Unicast

b. Broadcast

c. Multicast

d. Any of the above

The correct answer is c

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271. What is the efficiency of a frame in half-duplex Gigabit Ethernet carrying 46 bytes of data?

- a. 97percent
- b. 70percent**
- c. 56percent
- d. 12percent

The correct answer is b

272. Which of the following could not be an Ethernet multicast destination?

- a. B7-7B-6C-DE-10-00
- b. 7C-56-21-1A-DE-F4**
- c. 7B-AA-C1-23-45-32
- d. 83-32-21-21-4D-34

The correct answer is b

273. Which of the following is a four-wire Gigabit Ethernet implementation?

- a. 1000Base-SX
- b. 1000Base-LX
- c. 1000Base-T**
- d. 1000Base-CX

The correct answer is c

274. Forty stations are on an Ethernet LAN. A 10-port bridge segments the LAN. What is the effective average data rate of each station?

- a. 1.0Mbps
- b. 2.5Mbps**
- c. 2.0Mbps
- d. 5.0Mbps

The correct answer is b

275. A wireless LAN using FHSS hops 10 times per cycle. If the bandwidth of the original signal is 10 MHz and 2 GHz is the lowest frequency, the highest frequency of the system is _____ GHz.

- a. 1.0
- b. 2.0
- c. 2.1**
- d. 3.0

The correct answer is c

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276. An FHSS wireless LAN has a spread spectrum of 1 GHz. The bandwidth of the original signal is 250 MHz, and there are _____ hops per cycle.

a. 4

b. 3

c. 2

d. 1

The correct answer is a

277. A wireless LAN using FHSS hops 10 times per cycle. If the bandwidth of the original signal is 10 MHz, the spread spectrum is _____ M

Hz. a. 1000

b. 10,000

c. 10

d. 100

The correct answer is d

278. A wireless LAN using DSSS with an 8-bit chip code needs _____ MHz for sending data that originally required a 10-MHz bandwidth.

a. 20

b. 80

c. 2

d. 8

The correct answer is b

279. A wireless LAN using DSSS with _____ -bit chip code needs 320 MHz for sending data that originally required a 20-MHz bandwidth.

a. 2

b. 16

c. 32

d. 8

The correct answer is b

280. A wireless LAN using DSSS with a 4-bit chip code needs 10 MHz for sending data that originally required a _____ -MHz bandwidth.

a. 20

b. 25

c. 40

d. 2.5

The correct answer is d

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281. In an ESS the _____ station is not mobile.

- a. BSS
- b. AP
- c. Server
- d. None of the above

The correct answer is b

282. In an ESS the _____ stations are part of a wired LAN.

- a. BSS
- b. AP
- c. Server
- d. All the above

The correct answer is b

283. A station with _____ mobility is either stationary or moving only inside a BSS.

- a. No-transition
- b. BSS
- c. ESS
- d. (a) and (b)

The correct answer is a

284. _____ combine to form a scatternet.

- a. APs
- b. Piconets
- c. BSSs
- d. ESSs

The correct answer is b

285. Bluetooth uses _____ in the physical layer.

- a. DSSS
- b. DHSS
- c. FHSS
- d. OFDM

The correct answer is c

286. A _____ frame usually precedes a CTS frame.

- a. SIFS
- b. RTS
- c. DIFS
- d. Any of the above

The correct answer is b

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287. A station with _____ mobility can move from one BSS to another.

- a. No-transition
- b. ESS-transition
- c. BSS-transition**
- d. (b) and (c)

The correct answer is c

288. A station with _____ mobility can move from one ESS to another.

- a. No-transition
- b. ESS-transition**
- c. BSS-transition
- d. (b) and (c)

The correct answer is b

289. A _____ frame usually precedes an RTS frame.

- a. DIFS
- b. CIFS
- c. CTS

d. None of the above

The correct answer is d

290. Wire less transmission is _____ prone to error than/as wired transmission.

- a. Less
- b. More**
- c. Half as
- d. None of the above

The correct answer is b

291. Which MAC sublayer does IEEE 802.11 define?

- a. LLC
- b. PCF
- c. DCF
- d. (b) and (c)**

The correct answer is d

292. What is the basic access method for wireless LANs as defined by IEEE 802.11?

- a. LLC
- b. PCF
- c. DCF**
- d. BFD

The correct answer is c

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293. The access method for wireless LANs as defined by IEEE 802.11 is based on ____.

- a. Token passing
- b. CSMA
- c. CSMA/CD

d. CSMA/CA

The correct answer is d

294. FHSS, DSSS, and OFDM are ____ layer specifications.

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

The correct answer is c

295. Stations do not sense the medium during ____ time.

- a. SIFS
- b. NAV**
- c. RTS
- d. CTS

The correct answer is b

296. A Bluetooth frame needs ____ μ s for hopping and control mechanisms.

- a. 3
- b. 625
- c. 259**
- d. A multiple of 259

The correct answer is c

297. In the ____ method, the sender hops from frequency to frequency in a specific order.

- a. DSSS
- b. FHSS**
- c. OFDM
- d. HR-DSSS

The correct answer is b

298. A wireless LAN uses ____ frames for acknowledgment.

- a. Management
- b. Data
- c. Control**
- d. None of the above

The correct answer is c

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299. A wireless LAN uses ___ frames for the initial communication between stations and the access points.

- a. Control
- b. Data
- c. Management
- d. None of the above

The correct answer is c

300. A Bluetooth network can have ___ master(s).

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

The correct answer is a

301. A bridge forwards or filters a frame by comparing the information in its address table to the frame's ___.

- a. Source node's physical address
- b. Layer 2 destination address
- c. Layer 2 source address
- d. Layer 3

destination address The correct answer is b

302. Repeaters function in the ___ layer(s).

- a. Network
- b. Physical (MAC)
- c. Data link
- d. (a) and (b)

The correct answer is b

303. A ___ is actually a multiport repeater.

- a. Hub
- b. Bridge
- c. Router
- d. VLAN

The correct answer is a

304. A repeater takes a weakened or corrupted signal and ___ it.

- a. Resamples
- b. Reroutes
- c. Amplifies
- d. Regenerates

The correct answer is d

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305. A bridge has access to the ____ address of a station on the same network.

- a. Network
- b. Service access point
- c. Physical (MAC)**
- d. All the above

The correct answer is c

306. The bridge with the least-cost path between the LAN and the root bridge is called the ____ bridge.

- a. Forwarding
- b. Designated**
- c. Blocking
- d. (a) and (b)

The correct answer is b

307. A system with redundant bridges might have a problem with ____ in the system.

- a. Filters
- b. Spanning trees
- c. Loops**
- d. All the above

The correct answer is c

308. Bridges function in the ____ layer(s).

- a. Physical (MAC)
- b. Data link
- c. Network
- d. (a) and (b)**

The correct answer is d

309. In a VLAN, stations are separated into groups by ____.

- a. Software methods**
- b. Location
- c. Physical methods
- d. Switches

The correct answer is a

310. A bridge can ____.

- a. Filter a frame
- b. Forward a frame
- c. Extend a LAN
- d. Do all the above**

The correct answer is d

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311. A _____ bridge has the smallest ID.

- a. Designated
- b. Forwarding
- c. Blocking

d. Root

The correct answer is d

312. A bridge never forwards frames out of the _____ port.

- a. Root
- b. Designated

c. Blocking

- d. Forwarding

The correct answer is c

313. Which type of bridge builds and updates its tables from address information on frames?

a. Transparent

- b. Simple
- c. (a) and (b)
- d. None of the above

The correct answer is a

314. VLAN technology divides a LAN into _____ groups.

- a. Multiplexed
- b. Framed
- c. Physical

d. Logical

The correct answer is d

315. Which of the following is a connecting device?

- a. Bridge
- b. Repeater
- c. Hub

d. All the above

The correct answer is d

316. Which station characteristic can be used to group stations into a VLAN?

- a. Port numbers
- b. MAC addresses
- c. IP addresses

d. All the above

The correct answer is d

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317. _____ is a first-generation cellular phonesystem.

- a. GSM
- b. IS-95
- c. AMPS
- d. D-AMPS

The correct answer is c

318.AMPS uses _____ formodulation.

- a. FM
- b. FSK
- c. PM
- d. (a) and(b)

The correct answer is d

319. _____ separates the AMPS voicechannels.

- a. CDMA
- b. TDMA
- c. FDMA
- d. (b) and(c)

The correct answer is c

320. _____ is a cellular telephone system popular inEurope.

- a. GSM
- b. D-AMPS
- c. IS-95
- d. AMPS

The correct answer is a

321.D-AMPSuses _____ for multiplexing.

- a. CDMA
- b. TDMA
- c. FDMA
- d. (b) and(c)

The correct answer is d

322.GSMuses _____ for multiplexing.

- a. CDMA
- b. TDMA
- c. FDMA
- d. (b) and(c)

The correct answer is d

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323.DSSS is used by the ____ cellular phone system.

a. AMPS

b. IS-95

c. D-AMPS

d. GSM

The correct answer is b

324. ____ base stations use GPS for synchronization.

a. GSM

b. IS-95

c. AMPS

d. D-AMPS

The correct answer is b

325. ____ will have 288 satellites in 12 polar orbits.

a. Teledesic

b. Globalstar

c. Iridium

d. GPS

The correct answer is a

326. IS-95 has a frequency reuse factor of ____.

a. 7

b. 95

c. 1

d. 5

The correct answer is c

327. The path that a satellite makes around the world is called ____.

a. An orbit

b. A period

c. A footprint

d. An uplink

The correct answer is a

328. A GEO satellite has ____ orbit.

a. Apolar

b. An inclined

c. An equilateral

d. An equatorial

The correct answer is d

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329. Which orbit has the high altitude?

- a. LEO
- b. GEO**
- c. MEO
- d. HEO

The correct answer is b

330. _____ is a second-generation cellular phone system.

- a. D-AMPS
- b. GSM
- c. IS-95

d. All the above

The correct answer is d

331. A _____ is a computerized center that is responsible for connecting calls, recording call information, and billing.

- a. Cell
- b. Mobile station
- c. Base station
- d. Mobile switching center**

The correct answer is d

332. _____ has 48 satellites in six polar orbits.

- a. Iridium
- b. Teledesic
- c. Globalstar**
- d. GPS

The correct answer is c

333. The signal from a satellite is aimed at a specific area called the _____.

- a. Orbit
- b. Period
- c. Footprint**
- d. Uplink

The correct answer is c

334. In _____, a mobile station always communicates with just one base station.

- a. Roaming
- b. A roaming handoff
- c. A hard handoff**
- d. A soft handoff

The correct answer is c

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335. MEO satellites orbit ____ Van Allen belts.

- a. In the
- b. Above both
- c. Below both

d. Between the

The correct answer is d

336. ____ is often used for navigation purposes.

a. GPS

- b. AMPS
- c. IS-95
- d. Iridium

The correct answer is a

337. An LEO satellite has ____ orbit.

- a. An equatorial
- b. Apolar**
- c. An inclined
- d. All the above

The correct answer is b

338. Teledesic is a ____ LEO satellite system.

- a. Passband
- b. Broadband**
- c. Little
- d. Big

The correct answer is b

339. ____ has 66 satellites in six LEOs.

- a. Globalstar
- b. Teledesic
- c. GPS

d. Iridium

The correct answer is d

340. Transmission from the Earth to the satellite is called the ____.

- a. Downlink
- b. Uplink**
- c. Footlink
- d. Upprint

The correct answer is b

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341. The _____ is not used for voice communication.

a. **GPS**

- b. Iridium system
- c. IS-95 system
- d. Globalstar system

The correct answer is a

342. _____ is a Frame Relay option that transmits voice through the network.

- a. LMI
- b. FRAD
- c. **VOFR**
- d. DLCI

The correct answer is c

343. Frame Relay provides _____ connections.

- a. PVC
- b. SVC
- c. **(a) and (b)**
- d. None of the above

The correct answer is c

344. Routing and switching in Frame Relay are performed by the _____ layer.

- a. Physical
- b. Network
- c. **Datalink**
- d. (b) and (c)

The correct answer is c

345. Frame Relay is unsuitable for _____ due to possible delays in transmission resulting from variable frame sizes.

- a. File transfers
- b. **Real-time video**
- c. Fixed-rate data communication
- d. All the above

The correct answer is b

346. The Frame Relay address field is _____ in length.

- a. 4 bytes
- b. 2 bytes
- c. 3 bytes
- d. **Any of the above**

The correct answer is d

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347. Because ATM ____, which means that cells follow the same path, the cells do not usually arrive out of order.

- a. Is asynchronous
- b. Uses virtual circuit routing**

- c. Is multiplexed
- d. Is a network

The correct answer is b

348. ____ is a protocol to control and manage interfaces in Frame Relay networks.

- a. FRAD
- b. DLCI
- c. LMI**
- d. VOFR

The correct answer is c

349. Frame Relay operates in the ____.

- a. Physical and data link layers**
- b. Physical, data link, and network layers
- c. Physical layer
- d. Data link layer

The correct answer is a

350. In the data link layer, Frame Relay uses.

- a. A simplified HDLC protocol**
- b. LAPB
- c. BSC protocol
- d. Any ANSI

standard protocol The correct answer is a

351. The VPI of an NNI is ____ bits in length.

- a. 16
- b. 8
- c. 12**
- d. 24

The correct answer is c

352. In data communications, ATM is an acronym for ____.

- a. Automated Teller Machine
- b. Automatic Transmission Model
- c. Asynchronous Transfer Mode**

d. Asynchronous Telecommunication Method The correct answer is c

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353. Which AAL type is designed to support SEAL?

- a. AAL1
- b. AAL2
- c. AAL3/4
- d. AAL5

The correct answer is d

354. Which layer in ATM protocol reformats the data received from other networks?

- a. Physical
- b. Application adaptation
- c. Data adaptation
- d. ATM

The correct answer is b

355. Which layer in ATM protocol has a 53-byte cell as an end product?

- a. ATM
- b. Application adaptation
- c. Physical
- d. Cell transformation

The correct answer is a

356. Which AAL type is designed to support a data stream that has a constant bitrate?

- a. AAL1
- b. AAL2
- c. AAL3/4
- d. AAL5

The correct answer is a

357. The VPI of a UNI is _____ bits in length.

- a. 12
- b. 16
- c. 24
- d. 8

The correct answer is d

358.

In an ATM network, all cells belonging to a single message follow the same _____ and remain in their original order until they reach their destination.

a. Virtual circuit

- b. Transmission path
- c. Virtual path
- d. None of the above

The correct answer is a

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359. A device called a(n) _____ allows frames from an ATM network to be transmitted across a Frame Relay network.

a. FRAD

- b. LMI
- c. VOFR
- d. DLCI

The correct answer is a

360. A _____ provides a connection or a set of connections between switches.

a. Transmission path

b. Virtual circuit

- c. Virtual path
- d. None of the above

The correct answer is b

361. A _____ is the physical connection between an endpoint and a switch or between two switches.

a. Virtual path

b. Transmission path

- c. Virtual circuit
- d. None of the above

The correct answer is b

362. On a network that uses NAT, the _____ has a translation table.

a. Router

- b. Switch
- c. Server
- d. None of the above

The correct answer is a

363. Identify the class of IP address 229.1.2.3.

- a. Class A
- b. Class B
- c. Class C

d. Class D

The correct answer is d

364. On a network that uses NAT, _____ initiates the communication.

a. An internal host

- b. An external host
- c. The router
- d. (a) or (b)

The correct answer is a

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365. A subnet mask in class B can have __ 1s with the remaining bits 0s.

- a. Nine
- b. **Seventeen**
- c. Three
- d. Fourteen

The correct answer is b

366. A subnet mask in class C can have __ 1s with the remaining bits 0s.

- a. **Twenty-five**
- b. Twelve
- c. Seven
- d. Ten

The correct answer is a

367. Identify the class of IP address 4.5.6.7.

- a. **Class A**
- b. Class B
- c. Class C
- d. Class D

The correct answer is a

368. Identify the class of IP address 191.1.2.3.

- a. Class A
- b. **Class B**
- c. Class C
- d. Class D

The correct answer is b

369. A subnet mask in class A can have __ 1s with the remaining bits 0s.

- a. **Nine**
- b. Four
- c. Thirty-three
- d. Three

The correct answer is a

370. Class _____ has the greatest number of hosts per given network address.

- a. **A**
- b. B
- c. C
- d. D

The correct answer is a

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371. A subnet mask in class B has nineteen 1s. How many subnets does it define? a. 128

b. 8

c. 32

d. 64

The correct answer is b

372. In _____ routing, the full IP address of a destination is given in the routing table.

a. Next-hop

b. Host-specific

c. Network-specific

d. Default

The correct answer is b

373. A subnet mask in class C has twenty-five 1s. How many subnets does it define?

a. 0

b. 2

c. 8

d. 16

The correct answer is b

374. Given the IP address 180.25.21.172 and the subnet mask 255.255.192.0, what is the subnet address? a. 180.25.21.0

b. 180.25.8.0

c. 180.25.0.0

d. 180.0.0.0

The correct answer is c

375. Given the IP address 18.250.31.14 and the subnet mask 255.240.0.0, what is the subnet address? a. 18.9.0.14

b. 18.0.0.14

c. 18.31.0.14

d. 18.240.0.0

The correct answer is d

376. _____ is a client-server program that provides an IP address, subnet mask, IP address of a router, and IP address of a name server to a computer.

a. NAT

b. DHCP

c. CIDR

d. ISP

The correct answer is b

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377. In _____, each packet of a message need not follow the same path from sender to receiver.

a. The virtual approach to packet switching

b. The datagram approach to packet switching

c. Message switching

d. None of the above

The correct answer is b

378. An IP address consists of _____ bits.

a. 8

b. 32

c. 4

d. Any of the above

The correct answer is b

379. On a network that uses NAT, the router can use _____ global address(es).

a. A pool of

b. One

c. Two

d. None of the above

The correct answer is a

380. In _____ routing, the mask and destination addresses are both 0.0.0.0 in the routing table.

a. Default

b. Next-hop

c. Network-specific

d. Host-specific

The correct answer is a

381. A subnet mask in class A has fourteen 1s. How many subnets does it define?

a. 64

b. 128

c. 32

d. 8

The correct answer is a

382. In which type of switching do all the packets of a message follow the same channels of a path?

a. Virtual circuit packet switching

b. Message switching

c. Datagram packet switching

d. None of the above

The correct answer is a

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383. In _____ routing, the destination address is a network address in the routing table.

a. Network-specific

b. Host-specific

c. Next-hop

d. Default

The correct answer is a

384. Given the IP address 201.14.78.65 and the subnet mask 255.255.255.224, what is the subnet address? a. 201.14.78.64

b. 201.14.78.32

c. 201.14.78.65

d. 201.14.78.12

The correct answer is a

385. In error reporting the encapsulated ICMP packet goes to ____.

a. The receiver

b. A router

c. The sender

d. Any of the above

The correct answer is c

386. When the hop-count field reaches zero and the destination has not been reached, a _____ error message is sent.

a. Destination-unreachable

b. Redirection

c. Time-exceeded

d. Parameter-problem

The correct answer

is c

387. An ARP request is _____ to _____.

a. Multicast; one host

b. Unicast; all hosts

c. Broadcast; all hosts

d. Unicast; one host

The correct answer is c

388. What is the maximum size of the data portion of the IP datagram?

a. 65,515 bytes

b. 65,535 bytes

c. 65,475 bytes

d. 65,460 bytes

The correct answer is a

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389. A best-effort delivery service such as IP does not include ____.

- a. Error correction
- b. Error checking
- c. Datagram acknowledgment

d. All the above

The correct answer is d

390. An HLEN value of decimal 10 means.

- a. There is 10 bytes of options

b. There is 40 bytes in the header

- c. There is 40 bytes of options
- d. There is 10 bytes in the header

The correct answer is b

391. In IPv4, what is the value of the total length field in bytes if the header is 28 bytes and the data field is 400 bytes? a. 407

b. 107

c. 428

d. 427

The correct answer is c

392. If the fragment offset has a value of 100, it means that _.

a. The first byte of the datagram is byte 800

- b. The datagram has not been fragmented
- c. The datagram is 100 bytes in size
- d. The first byte of the datagram is byte 100

The correct answer is a

393. What is needed to determine the number of the last byte of a fragment?

- a. Identification number
- b. Offset number
- c. Total length

d. (b) and (c)

The correct answer is d

394. The IP header size ____.

- a. Depends on the MTU

b. Is 20 to 60 bytes long

- c. Is 20 bytes long
- d. Is 60 bytes long

The correct answer is b

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395.If a host needs to synchronize its clock with another host, it sends a ___ message.

- a. Time-exceeded
- b. Time-stamp-request**
- c. Source-quench
- d. Router-

advertisement The correct answer is b

396.Which of the following is a necessary part of the IPv6 datagram?

- a. Baseheader
- b. Extension header
- c. Data packet from the upperlayer
- d. (a) and(c)**

The correct answer is d

397._____ is a dynamic mapping protocol in which a physical address is found for a given IP address.

- a. RARP
- b. ICMP
- c. ARP**
- d. None of the above

The correct answer is c

398.A router reads the ___ address on a packet to determine the next hop.

- a. MAC
- b. Source
- c. IP**
- d. ARP

The correct answer is c

399.The target hardware address on an Ethernet is ___ in an ARP request.

- a. Variable
- b. Class-dependent
- c. 0x000000000000**
- d. 0.0.0.0

The correct answer is c

400.

When not all fragments of a message have been received within the designated amount of time, a _____ error message is sent.

- a. Time-exceeded**
- b. Parameter-problem
- c. Source-quench
- d. Time-stamp-

request The correct answer is a

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401. A _____ can learn about network _____ by sending out a router-solicitation packet.

- a. Router; routers
- b. Router; hosts
- c. Host; routers
- d. Host; hosts

The correct answer is c

402. Which of the following types of ICMP messages needs to be encapsulated into an IP datagram?

- a. Time-exceeded
- b. Multicasting
- c. Echo reply
- d. All the above

The correct answer is d

403. The purpose of echo request and echo reply is to _____.

- a. Report errors
- b. Check packet lifetime
- c. Check node-to-node communication
- d. Find IP addresses

The correct answer is c

404. An ARP reply is _____ to _____.

- a. Unicast; one host
- b. Broadcast; all hosts
- c. Multicast; one host
- d. Unicast; all hosts

The correct answer is a

405. One method to alert a source host of congestion is the _____ message.

- a. Source-quench
- b. Redirection
- c. Echo-request
- d. Destination-unreachable

The correct answer is a

406. A time-exceeded message is generated if _____.

- a. The round-trip time between hosts is close to zero
- b. The time-to-live field has a zero value
- c. Fragments of a message do not arrive within a set time
- d. (b) and (c)

The correct answer is d

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407. To determine whether a node is reachable, message can be sent.

a. An echo-request

- b. An echo-reply
- c. A redirection
- d. A source-quench

The correct answer is a

408. In IPv6, the _____ field in the base header restricts the lifetime of a datagram.

a. Version

b. Hop limit

- c. Priority
- d. Next-header

The correct answer is b

409. In IPv4, what is the length of the data field given an HLEN value of 12 and total length value of 40,000? a. 39,952

- b. 39,988
- c. 40,012
- d. 40,048

The correct answer is a

410. A datagram is fragmented into three smaller datagrams. Which of the following is true?

a. The do not fragment bit is set to 1 for all three datagrams.

b. The identification field is the same for all three datagrams.

- c. The more fragment bit is set to 0 for all three datagrams.
- d. The offset field is the same for all three datagrams. The correct answer is b

411. Errors in the header or option fields of an IP datagram require a _____ error message.

a. Source-quench

b. Parameter-problem

- c. Router-solicitation
- d. Redirection

The correct answer is b

412. The cost field of a router's first table from itself always has a value of _____.

a. Some positive integer

b. 0

- c. 1
- d. Infinity

The correct answer is b

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413. A routing table contains ____.

- a. The destination network ID
- b. The hop count to reach the network
- c. The router ID of the next hop

d. All the above

The correct answer is d

414. Router B receives an update from router A that indicates Net1 is two hops away. The next update from A says Net1 is five hops away. What value is entered in B's routing table for Net1? Assume the basic RIP is being used.

a. 6

b. 7

c. 2

d. 3

The correct answer is a

415. If the routing table contains four new entries, how many update messages must the router send to its one neighbor router?

a. 3

b. 4

c. 1

d. 2

The correct answer is c

416. An area border router can be connected to ____.

- a. Only another router
- b. Only another network
- c. Only another area border router

d. Another router or

another network

The correct answer is d

417. Which of the following usually has the least number of connections to other areas?

a. A transient link

b. A stub link

c. An area

d. An autonomous

system

The correct answer is b

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418. _____ is used in a dense multicast environment while _____ is used in a sparse multicast environment.

- a. PIM-SM; PIM-DM
- b. PIM; PIM-DM
- c. PIM; PIM-SM

d. PIM-DM; PIM-SM

The correct answer is d

419. When a multicast router is not directly connected to another multicast router, a _____ can be formed to connect the two.

- a. Logical core
- b. Spanning tree
- c. Physical tunnel

d. Logical tunnel

The correct answer is d

420. Which type of network using the OSPF protocol can have five routers attached to it?

a. Transient

- b. Stub
- c. Point-to-point
- d. All the above

The correct answer is a

421. A WAN using the OSPF protocol that connects two routers is an example of a _____ type of OSPF network.

a. Stub

b. Point-to-point

- c. Transient
- d. Virtual

The correct answer is b

422. If four hosts on a network belong to the same group, a total of _____ sentin

a. One membership report is

b. Two membership reports are

c. Three membership reports are

d. Four membership reports are

The correct answer is b

423. A one-to-all communication between a source and all hosts on a network is classified as a _____ communication.

- a. Unicast
- b. Multicast

c. Broadcast

d. (a) and (b)

The correct answer is c

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424. Which type of BGP message announces a route to a new destination?

a. Update

b. Open

c. Keep-alive

d. Notification

The correct answer is a

425. Which layer produces the OSPF message?

a. Data link

b. Transport

c. Application

d. Network

The correct answer is d

426. Which of the following is an exterior routing protocol?

a. RIP

b. OSPF

c. BGP

d. (a) and (b)

The correct answer is c

427. An area is ____.

a. Composed of at least two ASs

b. Another term for an internet

c. Part of an AS

d. A collection of stub areas

The correct answer is c

428. In an autonomous system with n areas, how many areas are connected to the backbone?

a. 1

b. n

c. $n - 1$

d. $n + 1$

The correct answer is c

429. Which of the following is an interior routing protocol?

a. RIP

b. OSPF

c. BGP

d. (a) and (b)

The correct answer is d

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430. OSPF is based on ____.

- a. Distance vector routing
- b. Path vector routing
- c. Link state routing
- d. (a) and (b)

The correct answer is c

431. BGP is based on ____.

- a. Distance vector routing
- b. Link state routing
- c. Path vector routing
- d. (a) and (b)

The correct answer is c

432. Which type of BGP message creates a relationship between two routers?

- a. Keep-alive
- b. Open
- c. Update
- d. Notification

The correct answer is b

433. Which type of network using the OSPF protocol always consists of just two connected routers?

- a. Transient
- b. Stub
- c. Point-to-point
- d. Virtual

The correct answer is c

434. Which type of network using the OSPF protocol is the result of a break in a link between two routers?

- a. Virtual
- b. Point-to-point
- c. Transient
- d. Stub

The correct answer is a

435. Which type of BGP message is sent by a router to close a connection?

- a. Open
- b. Update
- c. Notification
- d. Keep-alive

The correct answer is c

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436. An IGMP query is sent from a ___ to a ____.

a. Router; host or router

b. Host; host

c. Host; router

d. Router; router

The correct answer is a

437. Which type of BGP message is sent by a system to notify another router of the sender's existence?

a. Keep-alive

b. Notification

c. Open

d. Update

The correct answer is a

438. An Ethernet LAN using the OSPF protocol with five attached routers can be called a ____ network.

a. Point-to-point

b. Stub

c. Transient

d. Virtual

The correct answer is c

439. In distance vector routing each router receives information directly from ____.

a. Its neighbor only

b. Every router on the network

c. Every router less than two units away

d. A table stored by the network hosts

The correct answer is a

440.

system uses group-shared trees for multicasting. If there are 100 sources and 5 groups, there is a maximum of _____ different trees.

a. 20

b. 100

c. 5

d. 500

The correct answer is c

441. _____ is a multicast routing protocol using source-based trees.

a. DVRMP

b. MOSPF

c. CBT

d. (a) and (b)

The correct answer is d

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442. Pruning and grafting are strategies used in ____.

a. RPM

b. RPF

c. RPB

d. All the above

The correct answer is a

443. In distance vector routing a router sends out information ____.

a. Only when there is a change in its table

b. Only when a new host is added

c. At regularly scheduled intervals

d. Only when a new network

is added The correct answer is c

444. The ____ field of the IGMP message is all zeros in a query message.

a. Version

b. Type

c. Group address

d. Checksum

The correct answer is c

445. The ____ field of the IGMP message is 0x11 for a query message.

a. Version

b. Type

c. Checksum

d. d. (a) and (b)

The correct answer is d

446. A one-to-many communication between a source and a specific group of hosts is classified as a ____ communication.

a. Multicast

b. Unicast

c. Broadcast

d. (a) and (b)

The correct answer is a

447. A one-to-one communication between a source and one destination is classified as a ____ communication.

a. Unicast

b. Multicast

c. Broadcast

d. d. (a) and (b)

The correct answer is a

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448. _____ is a multicasting application.

- a. Teleconferencing
- b. Distance learning
- c. Information dissemination

d. All the above

The correct answer is d

449. A _____ is a data structure with nodes and edges and a hierarchical structure.

- a. Graph
- b. Leaf

c. Tree

- d. Root

The correct answer is c

450.

system uses source-based trees for multicasting. If there are 100 sources and 5 groups, there is a maximum of _____ different trees.

- a. 5
- b. 20
- c. 100

d. 500

The correct answer is d

451. In a _____ tree approach to multicasting, the combination of source and group determines the tree.

- a. Shortest-group
- b. Source-based**
- c. Spanning-source
- d. Group-shared

The correct answer is b

452. In a _____ tree approach to multicasting, the group determines the tree.

- a. Group-shared**
- b. Spanning-source
- c. Shortest-group
- d. Source-based

The correct answer is a

453. _____ is a multicast routing protocol using group-shared trees.

- a. DVRMP
- b. MOSPF

c. CBT

- d. (a) and (b)

The correct answer is c

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454. In _____ a network can receive a multicast packet from a particular source only through a designated parent router.

- a. RPF
- b. RPM
- c. RPB
- d. All the above

The correct answer is c

455. Dijkstra's algorithm is used to ____.

- a. Create LSAs
- b. Flood an internet with information
- c. Create a link state database
- d. Calculate the

routing tables
The correct answer is d

456. _____ A message tells an upstream router to stop sending multicast messages for a specific group through a specific router.

- a. Graft
- b. Prune
- c. Weed
- d. Plum

The correct answer is b

457. The _____ is used by a router in response to a received leave report.

- a. Special query message
- b. General query message
- c. Membership report
- d. Leave report

The correct answer is a

458. RIP is based on _____.

- a. Link state routing
- b. Dijkstra's algorithm
- c. Path vector routing
- d. Distance vector

routing
The correct answer is d

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459. A message tells an upstream router to start sending multicast messages for a specific group through a specific router.

- a. Weed
- b. Prune
- c. Plum

d. Graft

The correct answer is d

460. _____ uses multicast link state routing concepts to create source-based trees.

- a. DVMRP
- b. CBT
- c. BVD

d. MOSPF

The correct answer is d

461. In the _____ protocol, a multicast packet is encapsulated inside a unicast packet with the core router as the destination.

- a. DVMRP

b. CBT

- c. MOSPF

- d. BVD

The correct answer is b

462. The _____ is an IGMP message.

- a. Query message
- b. Membership report
- c. Leave report

d. All the above

The correct answer is d

463. The _____ defines the client program.

- a. Well-known port number

b. Ephemeral port number

- c. IP address

- d. Physical address

The correct answer is b

464. The _____ timer is used in the termination phase.

- a. Retransmission

b. Time-waited

- c. Persistence

- d. Keep-alive

The correct answer is b

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465. Which is a legal port address?

- a. 0
- b. 513
- c. 65,535

d. All the above

The correct answer is d

466. The definition of reliable delivery includes ____.

- a. Error-free delivery
- b. Receipt of the complete message
- c. In-order delivery

d. All the above

The correct answer is d

467. Which of the following does UDP guarantee?

- a. Acknowledgments to the sender
- b. Flow control
- c. Sequence numbers on each user datagram

d. None of the above

The correct answer is d

468. The source port address on the UDP user datagram header defines ____.

- a. The sending computer
- b. The receiving computer
- c. The application program on the receiving computer

d. The application program on the sending computer

The correct answer is d

469. A host can be identified by ____ while a program running on the host can be identified by ____.

- a. A port number; an IP address

b. An IP address; a port number

- c. An IP address; a host address

- d. An IP address; a well-

known port

The correct answer is b

470. Which of the following is not part of the UDP user datagram header?

- a. Source port address
- b. Checksum

c. Length of header

- d. Destination

port address

The correct answer is c

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471. The _____ defines the server program.

a. IP address

b. Well-known port number

c. Ephemeral port number

d. Physical address

The correct answer is b

472. IP is responsible for _____ communication while TCP is responsible for _____ communication.

a. Process-to-process; node-to-node

b. Host-to-host; process-to-process

c. Process-to-process; host-to-host

d. Node-to-node; process-to-

process

The correct answer is b

473. The _____ timer is needed to handle the zero window-size advertisement.

a. Persistence

b. Keep-alive

c. Retransmission

d. Time-waited

The correct answer is a

474. Connection establishment involves a _____ handshake.

a. Three-way

b. One-way

c. Two-way

d. None of the above

The correct answer is a

475. A special segment called a probe is sent by a sending TCP when the _____ timer goes off.

a. Persistence

b. Transmission

c. Keep-alive

d. Time-waited

The correct answer is a

476. The _____ address uniquely identifies a running application program.

a. IP address

b. NIC

c. Socket

d. Host

The correct answer is c

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477. The _____ field is used to order packets of a message.

a. **Sequence number**

- b. Acknowledgment number
- c. Urgent pointer
- d. Checksum

The correct answer is a

478. The _____ field is used for error detection.

- a. Sequence number
- b. Acknowledgment number
- c. Urgent pointer

d. **Checksum**

The correct answer is d

479. Multiply the header length field by _____ to find the total number of bytes in the TCP header.

a. **4**

- b. 6
- c. 8
- d. 2

The correct answer is a

480. Urgent data require the urgent pointer field as well as the URG bit in the _____ field.

a. Sequence number

b. **Control**

- c. Offset
- d. Reserved

The correct answer is b

481. In _____, data are sent or processed at a very inefficient rate, such as 1 byte at a time.

a. **Silly window syndrome**

- b. Sliding window syndrome
- c. Nagle's syndrome
- d. Delayed acknowledgment

The correct answer is a

482. The _____ timer keeps track of the time between the sending of a segment and the receipt of an acknowledgment.

a. Time-waited

b. **Retransmission**

- c. Persistence
- d. Keep-alive

The correct answer is b

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483. To prevent silly window syndrome created by a receiver that processes data at a very slow rate, __ can be used.

- a. Clark's solution
- b. Nagle's algorithm
- c. Delayed acknowledgment

d. (a) or (c)

The correct answer is d

484. To prevent silly window syndrome created by a sender that sends data at a very slow rate, __ can be used.

a. Nagle's algorithm

- b. Clark's solution
- c. Delayed acknowledgment
- d. (a) or (c)

The correct answer is a

485. An ACK number of 1000 always means that ____.

- a. 999 bytes has been successfully received
- b. 1000 bytes has been successfully received
- c. 1001 bytes has been successfully received

d. None of the above

The correct answer is d

486. The ____ timer prevents a long idle connection between two TCPs.

a. Keep-alive

- b. Time-waited
- c. Retransmission
- d. Persistence

The correct answer is a

487. UDP and TCP are both __ layer protocols.

- a. Physical
- b. Data link
- c. Network

d. Transport

The correct answer is d

488. Which of the following functions does UDP perform?

a. End-to-end reliable data delivery

b. Process-to-process communication

- c. Host-to-host communication
- d. All the above

The correct answer is b

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489.UDP needs the _____ address to deliver the user datagram to the correct application program.

- a. Application
- b. Internet
- c. Physical

d. Port

The correct answer is d

490. Karn's algorithm is used in calculations by the _____ timer.

- a. a. Time-waited

b. Retransmission

- c. Persistence
- d. Keep-alive

The correct answer is b

491. Slow start is used in conjunction with _____ as a TCP congestion control strategy.

- a. Multiplicative increase
- b. Multiplicative decrease

c. Additive increase

- d. Additive decrease

The correct answer is c

492. The maximum length of time that traffic is generated at the peak rate is called the _____.

- a. Effective bandwidth
- b. Average data rate

c. Maximum burst size

- d. Constant bit rate

The correct answer is c

493. For a system using TCP, the sender window size is determined by the _____ window size.

- a. Receiver
- b. Sender
- c. Congestion

d. (a) and (c)

The correct answer is d

494. _____ traffic features sudden data rate changes in very short periods of time.

- a. Constant-bit-rate

b. Bursty

- c. Variable-bit-rate
- d. Peak-bit-rate

The correct answer is b

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495. When the load is greater than the capacity, the delay __.

- a. Decreases
- b. Goes to infinity
- c. Increases linearly
- d. Goes to zero

The correct answer is b

496. _____ is a closed-loop mechanism to alleviate congestion.

- a. A chokepoint
- b. Implicit signaling
- c. Explicit signaling
- d. All the above

The correct answer is d

497. The FECN informs the _____ of congestion while the BECN informs the _____ of congestion.

- a. Sender; destination
- b. Interface; sender
- c. Destination; interface
- d. Destination; sender

The correct answer is d

498. The _____ is the maximum data rate of the traffic.

- a. Average data rate
- b. Maximum burst size
- c. Effective bandwidth
- d. Peak data rate

The correct answer is d

499. _____ is a flow characteristic in which the delay varies for packets belonging to the same flow.

- a. Chokepoint
- b. Additive increase
- c. Jitter
- d. Throughput

The correct answer is b

500. In _____ queuing the first packet into the queue is the first packet out of the queue.

- a. Priority
- b. Weighted fair
- c. FIFO
- d. LIFO

The correct answer is c

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501. In Frame Relay the transmission rate can never exceed ____.

a. Bc

b. The access rate

c. Be

d. CIR

The correct answer is b

502. ____ measures the variation in cell transmission time.

a. SCR

b. CVDT

c. PCR

d. MCR

The correct answer is b

503. If the SCR is 60,000, the PCR is 70,000, and the MCR is 55,000, what is the minimum number of cells that can be sent per second?

a. 60,000

b. 70,000

c. 55,000

d. 5000

The correct answer is c

504. The ____ traffic shaping method gives a host credit for its idle time.

a. Leaky bucket

b. Traffic bucket

c. Token bucket

d. Bursty bucket

The correct answer is c

505. A flow-based QoS model designed for IP is called ____.

a. RSVP

b. Integrated Services

c. Differentiated Services

d. Multicast trees

The correct answer is b

506. A signaling protocol that helps IP create a flow is called ____.

a. RSVP

b. Integrated Services

c. Differentiated Services

d. Multicast trees

The correct answer is a

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507. RSVP uses _____ messages.

- a. Path
- b. Resv
- c. Resource

d. (a) and (b)

The correct answer is d

508. In an RSVP reservation style called _____ filter, the router creates a single reservation that can be shared by a set of flows.

- a. Fixed
- b. Shared explicit**
- c. Wildcard
- d. All the above

The correct answer is b

509. Differentiated Services was designed to handle the _____ problem associated with Integrated Services.

- a. Stability
- b. Reservation
- c. Scalability**
- d. All the above

The correct answer is c

510. A _____ is a Differentiated Services traffic conditioner.

- a. Meter
- b. Marker

c. Shaper

The correct answer is c

511. What is the relationship between the access rate and the CIR?

- a. CIR plus Be is equal to the access rate.
- b. CIR is always equal to the access rate.
- c. CIR is greater than the access rate.

d. CIR is less than the access rate.

The correct answer is d

512. If the maximum CTD is 10 μ s and the minimum CTD is 1 μ s, the _____ is 9 μ s.

- a. CDV**
- b. CLR
- c. CTD
- d. CER

The correct answer is a

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513. A Frame Relay network is committed to transfer _____ bps without discarding any frames.

- a. Be
- b. Bc**
- c. CIR
- d. (a) and (b)

The correct answer is b

514. The effective bandwidth is based on _.

- a. Average data rate
- b. Peak data rate
- c. Maximum burst size

d. All the above

The correct answer is d

515. The cell _____ is the difference between the CTD maximum and minimum.

a. Delay variation

- b. Error ratio
- c. Loss ratio
- d. Transfer delay

The correct answer is a

516. The cell _____ is the ratio of lost cells to cells sent.

- a. Delay variation
- b. Error ratio
- c. Loss ratio**
- d. Transfer delay

The correct answer is c

517. The _____ service class is particularly suitable for applications with bursty data.

- a. CBR
- b. ABR**
- c. VBR
- d. UBR

The correct answer is b

518. The _____ service class is suitable for customers who need real-time video transmission without compression.

- a. ABR
- b. CBR**
- c. VBR
- d. UBR

The correct answer is b

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519. The _____ is greater than the SCR.

- a. MCR
- b. CVDT
- c. PCR
- d. All the above

The correct answer is c

520. The _____ is the fraction of the cells delivered in error.

- a. CLR
- b. CER
- c. CTD
- d. CDV

The correct answer is b

521. When added to Be, Bc should be less than the ____.

- a. CIR
- b. Committed burst size
- c. Access rate
- d. (a) and (b)

The correct answer is c

522. A connectionless iterative server uses _____ ports.

- a. Well-known
- b. Ephemeral
- c. Active
- d. (a) and (b)

The correct answer is a

523. The _____ socket is used with a protocol that directly uses the services of IP.

- a. Raw
- b. Stream
- c. Datagram
- d. Remote

The correct answer is a

524. A _____ server serves multiple clients, handling one request at a time.

- a. Connectionless iterative
- b. Connectionless concurrent
- c. Connection-oriented iterative
- d. Connection-oriented concurrent

The correct answer is a

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525. A client issues ____ when it needs service from a server.

- a. An active request
- b. A finite open
- c. An active open**
- d. A passive open

The correct answer is c

526. A ____ server serves multiple clients simultaneously.

- a. Connectionless iterative
- b. Connectionless concurrent
- c. Connection-oriented iterative
- d. Connection-oriented concurrent**

The correct answer is d

527. The server program is ____ because it is always available, waiting for a client request.

- a. Finite
- b. Infinite**
- c. Active
- d. Passive

The correct answer is b

528. A connection-oriented concurrent server uses ____ ports.

- a. Well-known
- b. Ephemeral
- c. Active
- d. (a) and (b)**

The correct answer is d

529. Machine A requests service X from machine B. Machine B requests service Y from machine A. What is the total number of application programs required?

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

The correct answer is d

530. A server program, once it issues ____, waits for clients to request its service.

- a. An active request
- b. A finite open
- c. An active open
- d. A passive open**

The correct answer is d

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531. _____ can request a service.

a. A socket interface

b. A client

c. A port

d. A server

The correct answer is b

532. _____ can provide a service.

a. An iterative server

b. A concurrent server

c. A client

d. (a) and (b)

The correct answer is d

533. The client program is _____ because it terminates after it has been served.

a. Finite

b. Infinite

c. Active

d. Passive

The correct answer is a

534. _____ processes requests one at a time.

a. An iterative server

b. A concurrent client

c. An iterative client

d. A concurrent server

The correct answer

is a

535. The _____ socket is used with a connectionless protocol.

a. Raw

b. Stream

c. Datagram

d. Remote

The correct answer is c

536. _____ processes many requests simultaneously.

a. An iterative server

b. A concurrent client

c. An iterative client

d. A concurrent

server

The correct

answer is d

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537. In a connection-oriented concurrent server, the _____ is used for connection only.

a. Well-known port

- b. Infinite port
- c. Ephemeral port
- d. (b) and (c)

The correct answer is a

538. A _____ is an instance of a _____.

a. Program; process

b. Process; program

- c. Process; service
- d. Structure; process

The correct answer is b

539. The _____ socket is used with a connection-oriented protocol.

a. Raw

b. Stream

- c. Datagram
- d. Remote

The correct answer is b

540. In the string 219.46.123.107.in-addr.arpa, what is the network address of the host we are looking for?

a. 107.123.46.0

b. 107.0.0.0

- c. 219.46.123.0
- d. 107.123.0.0

The correct answer is b

541. In _____ resolution the client is in direct contact with at most one server.

a. Acache

b. Recursive

- c. An iterative
- d. All the above

The correct answer is b

542. In address-to-name resolution the _____ domain is used.

a. Reverse

b. Generic

c. Country

d. Inverse

The correct answer is d

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543. How is the lifetime of a name-to-address resolution in cache memory controlled?

- a. By the time-to-live field set by the server
- b. By the time-to-live counter set by the server
- c. By the time-to-live field set by the authoritative server

d. (b) and (c)

The correct answer is d

544. A DNS response is classified as _ if the information comes from a cache memory.

- a. Authoritative
- b. Recursive

c. Unauthoritative

- d. Iterative

The correct answer is c

545. A host with the domain name pit.arc.nasa.gov. is on the _____ level of the DNS hierarchical tree. (The root is level 1.)

- a. Fourth

b. Fifth

- c. Third

- d. Not enough

information given

The correct answer is b

546. A DNS _____ server's zone is the entire DNS tree.

- a. Secondary

b. Root

- c. Primary

- d. All the above

The correct answer is b

547. To find the IP address of a host when the domain name is known, the _____ can be used.

a. Inversedomain

- b. Generic domains

- c. Country domains

- d. (b) or (c)

The correct answer is a

548. A DNS _____ server gets its data from another DNS server.

- a. Root

- b. Primary

c. Secondary

- d. All the above

The correct answer is c

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549. A DNS _____ server creates, maintains, and updates the zonefile.

- a. Root
- b. Primary**
- c. Secondary
- d. All the above

The correct answer is b

550. A host with the domain name trinity.blue.vers.inc is on the _____ level of the DNS hierarchical tree. (The root is level 1.)

- a. Fourth
- b. Fifth
- c. Third
- d. **Not enough**

information given The correct answer is d

551. In the domain name chal.atc.fhda.edu, _____ is the least specific label.

- a. fhda
- b. edu**
- c. chal
- d. atc

The correct answer is b

552. In the domain name chal.atc.fhda.edu, _____ is the most specific label.

- a. Fhda
- b. chal**
- c. atc
- d. edu

The correct answer is b

553. In _____ resolution the client could directly contact more than one server.

- a. An iterative**
- b. Acache
- c. Arecursive
- d. All the above

The correct answer is a

554. Which of the following domain names would most likely use a country domain to resolve its IP address?

- a. chal.atac.fhda.edu
- b. kenz.acct.sony.jp**
- c. gsfc.nasa.gov
- d. mac.eng.sony.com

The correct answer is b

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555. A resolver is the ____.

- a. Host machine
- b. DNS client**
- c. DNS server
- d. Root server

The correct answer is b

556. Which of the following is true?

- a. FTP allows systems with different directory structures to transfer files.
- b. FTP allows a system using ASCII and a system using EBCDIC to transfer files.
- c. FTP allows a PC and a SUN workstation to transfer files.
- d. All the above are true.**

The correct answer is d

557.

An email contains a textual birthday greeting, a picture of a cake, and a song. The text must precede the image. What is the content-type?

- a. Multipart/parallel
- b. Multipart/digest
- c. Multipart/alternative
- d. Multipart/mixed**

The correct answer is d

558. During an FTP session the control connection is opened ____.

- a. As many times as necessary
- b. Exactly once**
- c. Exactly twice
- d. All the above

The correct answer is b

559. The purpose of the MTA is ____.

- a. Transferral of messages across the Internet**
- b. Message preparation
- c. Envelope creation
- d. (a) and (b)

The correct answer is a

560. In anonymous FTP, the user can usually ____.

- a. Store files
- b. Retrieve files**
- c. Navigate through directories
- d. Do all the above

The correct answer is b

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561. Which part of the mail created by the UA contains the sender and receiver names?

a. Header

b. Body

c. Envelope

d. Address

The correct answer is a

562. In the email address mackenzie@pit.arc.nasa.gov, what is the domain name?

a. mackenzie

b. mackenzie@pit.arc.nasa.gov

c. pit.arc.nasa.gov

d. (a) and (b)

The correct answer is c

563. The _____ field in the MIME header uses text to describe the data in the body of the message.

a. Content-transfer-encoding

b. Content-Id

c. Content-type

d. Content-description

The correct answer

is b

564. The _____ field in the MIME header describes the method used to encode the data.

a. Content-Id

b. Content-description

c. Content-type

d. Content-transfer-encoding

The correct answer is d

565. The _____ field in the MIME header has type and subtype subfields.

a. Content-transfer-encoding

b. Content-type

c. Content-Id

d. Content-description

The correct answer

is b

566. A JPEG image is sent as email. What is the content-type?

a. Multipart/mixed

b. Multipart/image

c. Image/basic

d. Image/JPEG

The correct answer is d

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567. The purpose of the UA is __.

- a. Message preparation
- b. Envelope creation
- c. Transferral of messages across the Internet

d. (a) and (b)

The correct answer is d

568. The _____ field in the MIME header is the type of data and the body of the message.

- a. Content-Id
- b. Content-description

c. Content-type

- d. Content-transfer-encoding

The correct answer is c

569. A message is fragmented into three email messages. What is the content-type?

a. Message/partial

- b. Multipart/partial
- c. Multipart/mixed
- d. Message/RFC822

The correct answer is a

570. A client machine usually needs __ to send email.

- a. Only POP
- b. Both SMTP and POP

c. Only SMTP

- d. None of the above

The correct answer is c

571. In FTP, what attributes must be defined by the client prior to transmission?

- a. Data type
- b. File structure
- c. Transmission mode

d. All the above

The correct answer is d

572. In FTP, there are three types of __: stream, block, and compressed.

- a. Data structures

b. Transmission modes

- c. Files
- d. All the above

The correct answer is b

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573. In FTP, ASCII, EBCDIC, and image define an attribute called ____.

- a. Data structure
- b. Transmission mode
- c. Filetype
- d. All the above

The correct answer is c

574. In FTP, when you ____, it is copied from the server to the client.

- a. Retrieve a file
- b. Store a file
- c. Retrieve a list
- d. (a) and (c)

The correct answer is d

575. In FTP, when you ____, it is copied from the client to the server.

- a. Retrieve a file
- b. Store a file
- c. Retrieve a list
- d. (a) and (c)

The correct answer is b

576. An email contains a textual birthday greeting, a picture of a cake, and a song. The order is not important. What is the content-type?

- a. Multipart/digest
- b. Multipart/alternative
- c. Multipart/mixed
- d. Multipart/parallel

The correct answer is d

577. During an FTP session the data connection is opened ____.

- a. Exactly once
- b. Exactly twice
- c. As many times as necessary
- d. All the above

The correct answer is c

578. Which of the following is a retrieval method?

- a. HTTP
- b. FTP
- c. TELNET
- d. All the above

The correct answer is d

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579. A request message always contains __.

- a. A status line, a header, and a body
- b. A status line and a header
- c. A header and a body
- d. **A request line and a**

header

The correct answer is d

580. Which of the following is present in both a request line and a status line?

- a. URL
- b. Status code
- c. **HTTP version number**
- d. Status phrase

The correct answer is c

581. Which of the following is not a client program in WWW?

- a. FTP
- b. HTTP
- c. **HTML**
- d. TELNET

The correct answer is c

582. A user wants to replace a document with a newer version; the request line contains the __ method.

- a. **PUT**
- b. GET
- c. POST
- d. COPY

The correct answer is a

583. The ____ header can specify the client configuration and the client's preferred document format.

- a. **Request**
- b. Response
- c. General
- d. Entity

The correct answer is a

584. The ____ tags enclose binary code or bytecode.

- a. **Executable contents**
- b. Image
- c. List
- d. Hyperlink

The correct answer is a

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585. Which type of Web document is run at the clientsite?

- a. Dynamic
- b. Active**
- c. Static
- d. All theabove

The correct answer is b

586. HTTP has similarities to both __ and ____.

- a. FTP;MTV
- b. FTP;URL
- c. FTP;SNMP
- d. FTP;SMTP**

The correct answer is d

587. A user needs to send the server some information. The request line method is ____.

- a. OPTION
- b. POST**
- c. PATCH
- d. MOVE

The correct answer is b

588. A response message always contains ____.

- a. A header and a body
- b. A status line, a header, and a body
- c. A request line and a header**
- d. A status line and a header

The correct answer is c

589. The ____ header supplies information about the body of a document.

- a. General
- b. Request
- c. Entity**
- d. Response

The correct answer is c

590. The ____ header can specify the server configuration or provide information about a request.

- a. General
- b. Request
- c. Response**
- d. Entity

The correct answer is c

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591. Hypertext documents are linked through _____.

- a. TELNET
- b. Pointers
- c. DNS
- d. Homepages

The correct answer is b

592. Which of the following is an interpreter?

- a. CGI
- b. FTP
- c. HTTP
- d. HTML

The correct answer is d

593. What are the components of a browser?

- a. Controller, client program, interpreter
- b. Retrieval method, host computer, pathname
- c. Hypertext, hypermedia, HTML
- d. All the above

The correct answer is a

594. A user needs to retrieve a document from the server; the request line contains the _____ method.

- a. GET
- b. HEAD
- c. POST
- d. PUT

The correct answer is a

595. Which type of Web document is fixed-content and is created and stored at the server site?

- a. Dynamic
- b. Active
- c. Static
- d. All the above

The correct answer is c

596. The _____ of a Web page contains the title and parameters used by the browser.

- a. Attributes
- b. Tags
- c.]Head
- d. Body

The correct answer is c

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597. Which type of Web document is created at the server site only when requested by client?

- a. Active
- b. Static
- c. **Dynamic**
- d. All the above

The correct answer is c

598. In ``, ALIGN is ____.

- a. The head
- b. The body
- c. A tag
- d. **An attribute**

The correct answer is d

599. A user wants to copy a file to another location; the request line contains the ____ method.

- a. PUT
- b. PATCH
- c. **COPY**
- d. POST

The correct answer is c

600. What does the URL need to access a document?

- a. Path name
- b. Host computer
- c. Retrieval method
- d. **All the above**

The correct answer is d

601. Which type of Web document is transported from the server to the client in binary form?

- a. **Active**
- b. Static
- c. Dynamic
- d. All the above

The correct answer is a

602. An ending tag is usually of the form ____.

- a. `<tagname>`
- b. `<tagname!>`
- c. **`</tagname>`**

The correct answer is c

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603. An applet is a small application program written in ____

a. Shell script

b. Java

c. C

d. C++

The correct answer is b

604. Stock quotations are posted on the Web. This is probably a(n) document.

a. Passive

b. Dynamic

c. Active

d. Static

The correct answer is b

605. Updates for a satellite's coordinates can be obtained on the WWW. This is probably a(n) document.

a. Passive

b. Dynamic

c. Active

d. Static

The correct answer is b

606. A user needs to move a file to another location. The request line method is ____.

a. PATCH

b. MOVE

c. PUT

d. GET

The correct answer is b

607. Which category of HTML tags allows the listing of documents?

a. Image

b. Hyperlink

c. List

d. Executable

contents The correct

answer is c

608. A program can use ____ to write a CGI program.

a. Bourne shell script

b. Perl

c. C

d. Any of the above

The correct answer is d

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609.An unemployed actor has posted his resume on the Web. This is probably a(n) ____ document.

- a. Passive
- b. Dynamic
- c. Active

d. Static

The correct answer is d

610.The server receives input from a browser through ____.

- a. An attribute

b. A form

- c. A tag
- d. Any of the above

The correct answer is b

611.Output from a CGI program is ____.

- a. Text
- b. Graphics
- c. Binary data

d. Any of the above

The correct answer is d

612.____ is used to enable the use of active documents.

- a. CGI
- b. Java

c. HTML

- d. All the above

The correct answer is c

613.Java is ____.

- a. A programming language
- b. A run-time environment
- c. A class library

d. All the above

The correct answer is d

614.An applet is ____ document application program.

a. An active

- b. A passive
- c. A static
- d. A dynamic

The correct answer is a

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615.In a real-time video conference, data from the server are _____ to the client sites.

- a. Unicast
- b. Broadcast
- c. **Multicast**
- d. None of the above

The correct answer is c

616.A _____ adds signals from different sources to create a single signal.

- a. **Mixer**
- b. Translator or
- c. Timestamp
- d. Sequence number

The correct answer is a

617.The RTCP _____ message shuts down a stream.

- a. Application-specific
- b. Source description
- c. **Bye**
- d. Farewell

The correct answer is c

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618. A standard that allows a telephone (connected to a public telephone network) to talk to a computer connected to the Internet is ____.

a. SIP

b. H.323

c. IEEE 802.3

d. V.90bis

The correct answer is b

619. A _____ changes the format of a high-bandwidth video signal to a lower-quality narrow-bandwidth signal.

a. Timestamp

b. Sequence number

c. Mixer

d. Translator

The correct answer is d

620. An RTP packet is encapsulated in a(n) ____.

a. IP datagram

b. RTP packet

c. UDP user datagram

d. TCP segment

The correct answer is c

621. The last step in JPEG, ____, removes redundancies.

a. Blocking

b. Compression

c. Quantization

d. Vectorization

The correct answer is b

622. A _____ shows when a packet was produced relative to the first or previous packet.

a. Sequence number

b. Threshold

c. Timestamp

d. Playback buffer

The correct answer is c

623. _____ is a protocol to set up and terminate a connection between a computer on the Internet and a telephone (connected to a public telephone network).

a. H.245

b. H.225

c. H.323

d. Q.931

The correct answer is d

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624. TCP is not suitable for real-time traffic because __.

- a. There is no provision for timestamping
- b. There is no support for multicasting
- c. Missing packets are retransmitted

d. All the above

The correct answer is d

625. JPEG encoding involves __, a process that reveals the redundancies in a block.

- a. Quantization
- b. Vectorization
- c. Blocking

d. The DCT

The correct answer is d

626. The RTCP ____ report informs the sender and other receivers about the quality of service.

- a. Sender
- b. QoS
- c. Receiver**
- d. Passive

The correct answer is c

627. _____ is an application layer protocol that establishes, maintains, and terminates a multimedia session.

- a. DCT
- b. SIP**
- c. RTCP
- d. JPEG

The correct answer is b

628. For streaming stored audio/video, the ____ holds information about the audio video file.

- a. Jitter
- b. Alpha file
- c. Beta file

d. Metafile

The correct answer is d

629. _____ is a control protocol that adds functionalities to the streaming process.

- a. TCP/IP
- b. RTSP**
- c. HTTP
- d. SIP

The correct answer is b

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630. The audio/video stream is sent by the media server to the ____.

a. Media player

b. Browser

c. Webserver

d. None of the above

The correct answer is a

631. Voice over IP is a(n) ____ audio/video application.

a. Interactive

b. Streaming stored

c. Streaming live

d. None of the above

The correct answer is a

632. ____ is a SIP message type.

a. INVITE

b. CANCEL

c. OPTIONS

d. All the above

The correct answer is d

633. A ____ is involved in an SIP mechanism to find the IP address of a callee.

a. Proxy server

b. Registrar server

c. Media server

d. (a) and (b)

The correct answer is d

634. ____ are used to number the packets of a real-time transmission.

a. Translators

b. Timestamps

c. Playback buffers

d. Sequence numbers

The correct answer is d

635. In the ____ the encryption of each 8-byte block is independent of the others.

a. CFB

b. CSM

c. ECB mode

d. CBC mode

The correct answer is c

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636. In the public-key method of cryptography, which key is publicly known?

a. Encryption key only

- b. Decryption key only
- c. Both
- d. None of the above

The correct answer is a

637. A cipher is ____.

- a. An encryption algorithm
- b. A decryption algorithm
- c. A private key

d. (a) or (b)

The correct answer is d

638. Before a message is encrypted, it is called ____.

- a. Ciphertext
- b. Cryptotext
- c. Cryptonite

d. Plaintext

The correct answer is d

639. If 20 people need to communicate using symmetric-key cryptography, _____ symmetric keys are needed. a. 190

- b. 200
- c. 19
- d. 20

The correct answer is a

640. The _____ is an example of polyalphabetic substitution.

- a. P-box

b. Vigenere cipher

- c. S-box
- d. Product block

The correct answer is b

641. In the symmetric-key method of cryptography, which key is publicly known?

- a. Encryption key only
- b. Decryption key only
- c. Both

d. None of the above

The correct answer is d

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642. The RSA algorithm uses a ___ cryptography method.

- a. Private-key
- b. Symmetric-key
- c. Denominational

d. Public-key

The correct answer is d

643. The _____ is a block cipher.

- a. P-box
- b. S-box
- c. Product block

d. All the above

The correct answer is d

644. We use an encryption method in which the plaintext AAAAAA becomes the ciphertext BCDEFG. This is probably _____.

- a. Monoalphabetic substitution
- b. Transposition

c. Polyalphabetic substitution

- d. None of the above

The correct answer is c

645. One way to encrypt and decrypt long messages is through the use of the ____.

- a. ECB mode
- b. CBC mode
- c. CFM

d. All the above

The correct answer is d

646. An initialization vector is needed in the ____.

- a. CSM
- b. CBC mode
- c. CVF

d. (a) and (b)

The correct answer is d

647. In the public-key method of cryptography, only the receiver has possession of the ____.

- a. Public key
- b. Both keys

c. Private key

- d. None of the above

The correct answer is c

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648. After a message is decrypted, it is called _.

- a. Ciphertext
- b. Cryptotext
- c. Cryptonite
- d. Plaintext

The correct answer is d

649. We use a cryptography method in which the character Z always substitutes for the character G. This is probably _____.

- a. Polyalphabetic substitution
- b. Transpositional
- c. Monoalphabetic substitution
- d. None of the above

The correct answer is c

650. A protocol called _____ describes the certificate issued by a CA in a structural way.

- a. KDC
- b. X.509
- c. CA level 1
- d. Kerberos

The correct answer is b

651. Windows 2000 uses an authentication protocol called _____.

- a. Otway-Rees
- b. Kerberos
- c. Diffie-Hellman
- d. Needham-Schroeder

The correct answer is b

652. In the digital signature technique, the sender of the message uses _____ to create ciphertext.

- a. His or her own public key
- b. His or her own private key
- c. His or her own symmetric key
- d. The receiver's private key

The correct answer is b

653. A _____ is a trusted third party that solves the problem of symmetric-key distribution.

- a. TLS
- b. Firewall
- c. CA
- d. KDC

The correct answer is d

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654. In a _____ attack, a message captured by an intruder is illegally sent a second time.

- a. Return
- b. **Replay**
- c. Man-in-the-middle
- d. Bucket brigade

The correct answer is b

655. In the _____ protocol, a nonce is decremented by 1 so that an intruder cannot send the exact same message a second time.

- a. **Needham-Schroeder**
- b. Diffie-Hellman
- c. Otway-Rees
- d. Kerberos

The correct answer is a

656. If user A wants to send an encrypted message to user B, the plaintext is encrypted with the public key of _____.

- a. The network
- b. User A
- c. **User B**
- d. (a) or (b)

The correct answer is c

657. When symmetric-key encryption is combined with private-key encryption, the _____ key is encrypted with the public key.

- a. Skeleton
- b. Private
- c. Public

d. **Symmetric**

The correct answer is d

658. The _____ issues tickets for the real server.

- a. Real server
- b. Data server
- c. **AS**
- d. TGS

The correct answer is c

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659. In _____-key cryptography, everyone has access to all the public keys.

- a. Private
- b. Certified
- c. Symmetric
- d. Public

The correct answer is c

660. In the digital signature technique, the receiver of the message uses _____ to create plaintext.

- a. The sender's public key
- b. Her or his own symmetric key
- c. Her or his own private key
- d. Her or his own public key

The correct answer is a

661. A _____ is a large number used only once that helps distinguish a fresh authentication request from a repeated one.

- a. Ticket
- b. Realm
- c. Nonce
- d. Public key

The correct answer is c

662. A _____ certifies the binding between a public key and its owner.

- a. KDC
- b. TLS
- c. CA
- d. Firewall

The correct answer is c

663. In an authentication using symmetric keys, if 10 people need to communicate, we need _____ keys.

- a. 90
- b. 10
- c. 20
- d. 45

The correct answer is d

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664. In the _____ protocol, the symmetric key is $K = G^{xy} \bmod N$, where G and N are public numbers.

- a. Needham-Schroeder
- b. Otway-Rees
- c. Diffie-Hellman
- d. Kerberos

The correct answer is c

665. In a _____ attack, an intruder comes between two communicating parties intercepting and replying to their messages.

- a. Bucket-in-the-middle
- b. Replay
- c. Return
- d. Man-in-the-middle

The correct answer is d

666. A _____ is a trusted third party that establishes a symmetric key between two parties who wish to communicate.

- a. PKI
- b. TGS

c. KDC

- d. CA

The correct answer is c

667. _____ is an authentication protocol that needs an authentication server and a ticket-granting server.

- a. Needham-Schroeder
- b. Diffie-Hellman
- c. Otway-Rees
- d. Kerberos

The correct answer is d

668. The _____ is the KDC in the Kerberos protocol.

- a. Real server
- b. Data server

c. AS

- d. TGS

The correct answer is c

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669. The _____ field in the authentication header and the ESP header define the security method used in creating the authentication data.

a. Authentication data

b. SPI

c. Padding

d. Sequence number

The correct answer is b

670. Tunneling is a technique in which the IP datagram is first _____ and then _____.

a. Encapsulated in another datagram; encrypted

b. Encrypted; encapsulated in another datagram

c. Authenticated; encrypted

d. Encrypted; authentic

The correct

answer is b

671. _____ is an IP layer security protocol that only provides integrity and authentication.

a. PGP

b. ESP

c. IPSec

d. AH

The correct answer is d

672. An _____ is a private network with no external access that uses the TCP/IP suite.

a. Internet

b. Intranet

c. internet

d. Extranet

The correct answer is b

673. IPSec requires a logical connection between two hosts using a signaling protocol called _____.

a. PGP

b. TLS

c. AH

d. SA

The correct answer is d

674. An _____ is a private network with limited external access that uses the TCP/IP suite.

a. Intranet

b. Extranet

c. Internet

d. internet

The correct answer is b

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675. The handshake protocol and data exchange protocol are part of _____.

a. TLS

b. CA

c. KDC

d. SSH

The correct answer is a

676. _____ is a collection of protocols that provide security at the IP layer level.

a. TLS

b. SSH

c. IPSec

d. PGP

The correct answer is c

677. A method to provide for the secure transport of email is called _____.

a. TLS

b. PGP

c. SA

d. IPSec

The correct answer is b

678. AVPN uses _____ to guarantee privacy.

a. IPSec

b. Tunneling

c. Both (a) and (b)

d. None of the above

The correct answer is c

679. A _____ can forward or block messages based on the information in the message itself.

a. Message digest

b. Proxy firewall

c. Packet-filter firewall

d. Private key

The correct answer is b

680. _____ is an IP layer security protocol that provides privacy as well as integrity and authentication.

a. AH

b. PGP

c. IPSec

d. ESP

The correct answer is d

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681. _____ is a transport layer security protocol.

- a. PGP
- b. IPSec
- c. TLS
- d. AH

The correct answer is c

682. An IP datagram carries an authentication header if the _____ field of the IP header has a value of 51.

- a. Protocol
- b. Security parameter index
- c. Sequence number
- d. Next-header

The correct answer is a

683. A _____ network is totally isolated from the global Internet.

- a. Private
- b. Hybrid
- c. Virtual private
- d. Any of the above

The correct answer is a

684. A _____ network can use a leased line for intraorganization communication and the Internet for interorganization communication.

- a. Private
- b. Hybrid
- c. Virtual private
- d. Any of the above

The correct answer is b

685. In a VPN, _____ encrypted.

- a. The inner datagram is
- b. Neither the inner nor the outer datagram is
- c. The outer datagram is

d. Both inner and outer datagrams are

The correct answer is d

686. A _____ can forward or block packets based on the information in the network layer and transport layer headers.

- a. Proxy firewall
- b. Message digest
- c. Packet-filter firewall
- d. Private key

The correct answer is c

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ASMA **Top Study Tips for Final Exams**

Not every studying technique works for every student, so experiment with a few of these important study tips to find out which ones work best for you.

1. Create a schedule. ...
2. Pull together all study materials. ...
3. Organize all your materials into a format that's easiest for you to review. ...
4. Use different study methods to remember information. ...
5. One example is one of the most familiar to students: ROY G. ...
6. Take a break. ...
7. Go to bed early the night before. ...
8. Ask for help if you need it. ...

Test Your Knowledge

Once you know the format, try creating a practice exam based on what you think the test might cover. This will help you understand the material on a deeper level, and guide what you should be studying. You can then use your practice exam to quiz yourself and your study group.

Keep Learning..... Quoted By ASMA

*****Best of Luck *****