#### **Business Data Communications 1st Edition Agrawal Test Bank**

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# Question Bank accompanying Business Data Communications

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## **Chapter 2 – Physical Layer**

## 1. Signaling is \_\_\_\_\_.

- a) the transmission path over which information propagates
- b) wiring cables between locations
- c) combining multiple signals for transmission over one medium
- d) converting data to signals for transmission over physical media

#### Answer: (d)

- 2. A signal is \_\_\_\_\_.
  - a) information added to data to remove errors
  - b) cables connecting networked locations
  - c) detectable transmitted energy that can be used to carry information
  - d) converting data to signals for transmission over physical media

#### Answer: (c)

#### 3. The only layer in the TCP/ IP stack that deals with the limitations of nature is \_\_\_\_\_.

- a) the data link layer
- b) the physical layer
- c) the network layer
- d) the transport layer

#### Answer: (b)

#### 4. Signals in copper wire are transmitted as \_\_\_\_\_.

- a) sound signals
- b) light signals
- c) electrical signals.
- d) smoke signals

## Answer: (c)

## 5. A physical medium is \_\_\_\_\_.

- a) the transmission path over which a signal propagates
- b) the method of combining multiple signals for transmission over one medium
- c) used to convert data to signals for transmission
- d) detectable transmitted energy that can be used to carry information

#### Answer: (a)

#### 6. As a physical medium, copper possesses all of the following properties except \_\_\_\_\_.

- a) copper is relatively abundant
- b) copper is a good conductor of electricity
- c) copper is relatively inexpensive
- d) copper can transmit information over very long distances

## Answer: (d)

#### 7. The term UTP stands for \_\_\_\_\_.

- a) unshielded telephone pair
- b) unshielded twisted pair
- c) uncovered twisted pair
- d) uncovered telephone pair

#### Answer: (b)

- 8. A CAT 5 cable has \_\_\_\_\_ wires.
  - a) 4
  - b) 6
  - c) 8
  - d) 10

## Answer: (c)

9. A CAT 5 cable is terminated using connectors called \_\_\_\_\_.

- a) RJ 11 connectors
- b) RJ 19 connectors
- c) RJ 45 connectors
- d) RJ 54 connectors

## Answer: (c)

## 10. As a physical medium, optical fiber possesses all of the following properties except

- a) it is relatively light in weight
- b) it can carry signals for long distances without the need for repeaters
- c) it is relatively inexpensive
- d) it is as robust as copper in withstanding abuse

## Answer: (d)

## 11. Single mode fiber is preferred over multi-mode fiber for short distances.

- a) True
- b) False

## Answer: (b)

## 12. Data is converted to signals for transmission because \_\_\_\_\_.

- a) data is expensive to transport over physical media
- b) there is no known method to transport data over physical media
- c) signals are inexpensive to transport over physical media
- d) network carriers prefer to transport signals

#### Answer: (b)

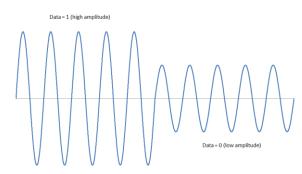
#### 13. Good signals have all the following properties except \_\_\_\_\_.

- a) good signals do not need to be multiplexed
- b) good signals are efficient at using bandwidth
- c) good signals are resistant to noise
- d) good signals are easy to detect at the receiver's end

## Answer: (a)

#### 14. The figure shows an example of \_\_\_\_\_.

- a) digital data transmitted using a digital signal
- b) digital data transmitted using an analog signal
- c) analog data transmitted using a digital signal



d) analog data transmitted using an analog signal

## Answer: (b)

## 15. Amplitude is a measure of \_\_\_\_\_.

- a) the height of a sine wave
- b) the number of cycles made by a sine wave in one second
- c) the position of a sine wave at the start time
- d) None of the above

## Answer: (a)

- 16. Modulation is the process of \_\_\_\_\_.
  - a) spinning a wheel to generate a sine wave
  - b) increasing the amplitude of a sine wave
  - c) increasing the frequency of a sine wave
  - d) changing one or more properties of a sine wave in response to data

## Answer: (d)

#### 17. Quadrature amplitude modulation \_\_\_\_\_.

- a) is another name for amplitude modulation
- b) combines amplitude modulation with phase modulation
- c) combines amplitude modulation with frequency modulation
- d) None of the above

#### Answer: (b)

#### 18. Binary signals are preferred over other forms of signals (ternary, decimal etc) because

- a) binary signals are the easiest to detect reliably by the receiver
- b) binary signals can carry the most amount of information in a given time period
- c) binary signals are the fastest known means of transmitting data
- d) binary signals are the easiest to generate for the sender

#### Answer: (a)

## 19. A bit \_\_\_\_\_.

- a) transforms elements from one set of elements to another set
- b) generates sine waves for transmission over a medium

- c) is the unit of information that designates one of two possible states
- d) changes one or more properties of a sine wave in response to data

## Answer: (c)

## 20. Coding is \_\_\_\_\_.

- a) the unit of information
- b) the transformation of elements from one set of elements to another set
- c) the generation of sine waves for transmission over a medium
- d) changing one or more properties of a sine wave in response to data

#### Answer: (b)

## 21. Noise is \_\_\_\_\_.

- a) the transformation of elements from one set of elements to another set
- b) the generation of sine waves for transmission over a medium
- c) changing one or more properties of a sine wave in response to data
- d) any disturbance that interferes with the normal operation of a device

## Answer: (d)

#### 22. The ASCII code is used to encode \_\_\_\_\_.

- a) characters in the English alphabet
- b) characters in the Chinese language
- c) characters in all languages
- d) characters in most languages spoken around the world

#### Answer: (a)

## 23. Unicode is used to encode \_\_\_\_\_.

- a) characters in the English alphabet only
- b) characters in the Chinese language only
- c) characters in most languages
- d) characters in the 5 most common languages spoken around the world

#### Answer: (c)

#### 24. In FDM \_\_\_\_\_.

- a) signals from each channel are sent at a specified frequency
- b) signals from each channel are sent at a specified amplitude

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- c) signals from each channel are sent at a specified phase
- d) signals from each channel are sent at a specified time

## Answer: (a)

- 25. In TDM \_\_\_\_\_.
  - a) signals from each channel are sent at a specified frequency
  - b) signals from each channel are sent at a specified amplitude
  - c) signals from each channel are sent at a specified phase
  - d) signals from each channel are sent at a specified time

#### Answer: (d)