## **Business Data Communications 6th Edition Stallings Test Bank**

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Stallings Chapter 02 Exam BUSINESS INFORMATION 1. Today, all networked information is sent using digital formats. a. True b. False Answer: \_\_\_\_ 2. A single bit of information represents two states or values. a. True b. False Answer: 3. The terms byte and octet describe the same amount of information. a. True b. False Answer: 4. Voice communication can only be done using an analog signal. a. True b. False Answer: \_\_\_\_ 5. PBX and Centrex systems provide similar functionality from the users point-of-view. a. True b. False Answer: 6. Services transmitting video information use a series of vector images to represent moving images. a. True b. False Answer: \_\_\_\_ 7. System response time and system cost are closely related to each other.

- a. True
- b. False

Answer:

8. Response time is extremely important when implementing email systems.

a. True b. False

Answer: \_\_\_\_\_

9. When transmitting video information, compression ratios can range as high as 100:1 with little loss of perceived quality.

a. True b. False

Answer: \_\_\_\_\_

10. Interlacing is a method of reducing the bandwidth requirements for video transmissions.

a. True b. False

Answer: \_\_\_\_

11. When using analog communications, channel capacity is measure in hertz (Hz) where 1 Hz equals 1000 oscillations per second.

a. True b. False

Answer:

12. The United States national version of IRA is referred to as the American Standard Code for Information Interchange (ASCII).

a. True b. False

Answer:

13. For each of the following binary values, indicate which decimal value is equivalent.

1. 10 2. 1010 3. 11 4. 1111 \_\_\_\_ 5. 101 a. 3 b. 10 c. 15 d. 5 e. 2

14. Select all of the following which represent digital forms of information.

a. A watch with two handsb. A mechanical odometer on a carc. A watch that displays time as HH:MMd. A gas gaugee. A page filled with English prosef. A fax transmission

Answers: \_\_\_\_\_

15. Which of the following represents the most basic unit of digital information?

a. Byteb. Nibblec. Pixeld. Bite. Octet

Answer: \_\_\_\_

16. Standard voice telephone lines, such as those found in residences, limit bandwidth to

a. 300 Hz
b. 3,400 Hz
c. 8,000 Hz
d. 20,000 Hz
e. 1,410,000 Hz

Answer: \_\_\_\_\_

17. A stereo compact disc typically requires the bandwidth for each channel to be  $% \left( {{{\left[ {{{\left[ {{{c}} \right]}} \right]}_{{\left[ {{{c}} \right]}}}}_{{\left[ {{{c}} \right]}}}} \right]$ 

a. 300 Hz
b. 3,400 Hz
c. 8,000 Hz
d. 20,000 Hz
e. 1,410,000 Hz

Answer: \_\_\_\_\_

18. When using data communications with 8-bit codes, the number of alphabetic symbols

a. must be exactly 256. b. must be greater than 8. c. can be greater than 1024 bytes. d. must be less than 256. e. determines the number of octets.

Answer: \_\_\_\_

19. Which of the following is the binary representation of the decimal value 22?

a. 10110 b. 11000 c. 10010 d. 10110 e. 10101

Answer: \_\_\_\_\_

20. Which of the following is the binary representation of the decimal value 24?

a. 10110 b. 11000 c. 10010 d. 10110 e. 10101

Answer: \_\_\_\_

21. Which of the following is the binary representation of the decimal value 18?

a. 10110 b. 11000 c. 10010 d. 10110 e. 10101

Answer: \_\_\_\_\_

22. Which of the following is the binary representation of the decimal value 21?

a. 10110 b. 11000 c. 10010 d. 10110 e. 10101

Answer: \_\_\_\_\_

23. The time interval between when a user presses a key and when the result of that action arrives at his or her workstation is called the

- a. response time.b. turn-around time.c. think time.d. delay time.e. transmission time.

Answer: \_\_\_\_

24. A representation of images that uses straight and curved line segments is called .

Answer:

25. A representation of images that uses an array of pixels is called

Answer:

\_\_\_\_·

26. When using an eight-value gray-scale image, \_\_\_\_ bits per pixel are needed.

Answer:

27. Place the following information types in order by the required data rates with the 1 needing the slowest and 6 needing the fastest.

\_\_\_\_ color image \_\_\_\_ HDTV \_\_\_\_ text \_\_\_\_ black and white image \_\_\_\_ CD audio \_\_\_\_ voice

28. List the four types of information that are communicated over networks.

Answer:

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[b] 2. 1010
[c] 3. 11
[d] 4. 1111
[e] 5. 101
a. 2
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c. 3
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14. Select all of the following which represent digital forms of information.

a. A watch with two handsb. A mechanical odometer on a car\*c. A watch that displays time as HH:MMd. A gas gauge\*e. A page filled with English prose\*f. A fax transmission

15. Which of the following represents the most basic unit of digital information?

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```
c. Pixel
*d. Bit
e. Octet
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\*a. response time.b. turn-around time.c. think time.d. delay time.e. transmission time.

24. A representation of images that uses straight and curved line segments is called .

Correct Answer(s):
a. vector graphics

25. A representation of images that uses an array of pixels is called

Correct Answer(s):
a. raster graphics

\_\_\_\_·

26. When using an eight-value gray-scale image, \_\_\_\_ bits per pixel are needed.

```
Correct Answer(s):
a. 3
b. three
```

27. Place the following information types in order by the required data rates with the 1 needing the slowest and 6 needing the fastest.

text
 black and white image

Color image
 voice
 CD audio
 HDTV

 $\ensuremath{\text{28. List}}$  the four types of information that are communicated over networks.

Correct Answer: The four types are voice, data, image, and video.

- 1. b.
- 2. a.
- 3. a.
- 4. b.
- 5. a.
- 6. b.
- 7. a.
- 8. b.
- 9. a.
- 10. a.
- 11. b.
- 12. a.
- 13. [a] 1. 10 [b] 2. 1010 [c] 3. 11 [d] 4. 1111 [e] 5. 101
  - a. 2 b. 10 c. 3 d. 15 e. 5
- 14.
- e. f.

с.

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