

Quiz 2 - Chapter 3 Results for Abdulaziz Alkaabi

⚠ Correct answers are hidden.

Score for this attempt: **20** out of 20

Submitted Oct 5 at 2:09pm

This attempt took 2 minutes.

Question 1

3 / 3 pts

There are 2 types of signals used for sending data. Analog and digital. Which of the following would be examples of Digital signals? (select ALL that apply).

☒ Has discrete states (values)

☒ Can be either ON or Off

☐ Infinite number of values

☐ Human Voice

Question 2

1 / 1 pts

Cycles Per Second refer to the number of complete sine waves that take place in one second of time. The value that represents Cycles Per Second, is referred to as what value?

☐ RMS

☐ Signal

☐ Period☒ Hertz**Question 3****2 / 2 pts**

If there are 20 periods in one second, meaning 20 complete cycles of a sine wave, then we have a frequency of?

☐ 1 Hertz☐ 20 RMS☐ 100 Hertz☒ 20 Hertz**Question 4****2 / 2 pts**

If you are examining the frequency of a signal, and the frequency does not change but stays constant at 5 volts. What is the frequency of this signal?

☒ 0☐ f/t☐ 5

☐ 1/f

Question 5

1 / 1 pts

If the phase shift of a signal is 180 degrees, then if it starts at time 0, then the amplitude of the signal is said to be _____.

☐ Increasing

☐ Not changing

☐ 0

☒ Decreasing

Question 6

1 / 1 pts

This type of signal is made up of many simple sine waves.

☒ Composite signal

☐ Low-pass signal

☐ Modulating signal

☐ Fourier signal

Question 7**2 / 2 pts**

If a periodic signal is decomposed into four sine waves with frequencies of 150, 300, 450, and 600 Hz, what is its bandwidth?

- ☐ 600 Hz
- ☐ 1500 Hz
- ☐ 750 Hz
- ☒ 450 Hz

Question 8**1 / 1 pts**

Digital signals are nonperiodic, and thus period and frequency are not appropriate characteristics. Instead, _____ is used to describe digital signals.

- ☒ bit rate
- ☐ band rate
- ☐ MHz
- ☐ cycles per second

Question 9**1 / 1 pts**

This is the process of sending a digital signal over a channel without changing the digital signal to an analog signal. This method requires that we have a low-pass channel.

- ☐ sine-wave
- ☒ baseband
- ☐ encapsulation
- ☐ low-band

Question 10

1 / 1 pts

This is the process of changing a digital signal to an analog signal for transmission purposes. It is also referred to as modulation.

- ☐ Baseband
- ☒ Broadband
- ☐ Lowband
- ☐ Band-demod

Question 11

2 / 2 pts

Impairment of a signal can be caused by many different issues. Which impairment can cause crosstalk or additional signals that were not in

the original signal?

- ☐ Distortion
- ☐ Molecularization
- ☒ Noise
- ☐ Attenuation

Question 12

3 / 3 pts

Data rate measures how fast we can send data over a channel. Data rate depends upon which 3 of the following factors (select 3)?

- ☒ Available bandwidth
- ☒ Channel quality
- ☐ Type of signal
- ☒ Signal level used

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