

Quiz 2 - Chapter 3 Results for Abdulaziz Alkaabi

❗ Correct answers are hidden.

Score for this attempt: **11** out of 20

Submitted Oct 5 at 1:46pm

This attempt took 13 minutes.

Incorrect

Question 1

0 / 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).

- ☒ Can be either ON or Off
- ☐ Has discrete states (values)
- ☒ Human Voice
- ☐ Infinite number of values

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
- ☐ Period

☒ Hertz☐ Signal**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?

☐ 20 RMS☐ 100 Hertz☒ 20 Hertz☐ 1 Hertz**Incorrect****Question 4****0 / 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 ☐ $1/f$

☒ 5

Incorrect

Question 5

0 / 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 _____.

☐ Decreasing

☐ Not changing

☒ Increasing

☐ 0

Incorrect

Question 6

0 / 1 pts

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

☐ Composite signal

☒ Fourier signal

☐ Low-pass signal

☐ Modulating 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☒ 450 Hz☐ 750 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.

☐ cycles per second☐ MHz☒ bit rate☐ band rate**Incorrect****Question 9****0 / 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.

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

Incorrect

Question 10

0 / 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
- ☐ Band-demod
- ☐ Lowband

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
- ☐ Attenuation
- ☒ Noise
- ☐ Molecularization

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)?

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

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