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<b>Completed on</b>	Thursday, 29 September 2016, 12:21 PM
<b>Time taken</b>	19 mins 39 secs
<b>Grade</b>	<b>72.50</b> out of 100.00

### Question 1

Complete

Mark 5.00 out of 5.00

Standard PoE devices must be provided with how much power in order to function?

Select one:

- ☐ a. 5 watts
- ☒ b. 15.4 watts
- ☐ c. 25.5 watts
- ☐ d. 12 watts

**Question 2**

Complete

Mark 0.00 out of 5.00

Since cable TV and cable Internet can share the same coaxial cable, they are considered to be what type of technology?

Select one:

- ☐ a. baseband
- ☐ b. narrowband
- ☒ c. wideband
- ☐ d. broadband

**Question 3**

Complete

Mark 5.00 out of 5.00

Ethernet is an example of what type of technology?

Select one:

- ☒ a. baseband
- ☐ b. broadband
- ☐ c. narrowband
- ☐ d. wideband

**Question 4**

Complete

Mark 5.00 out of 5.00

A serial cable with an RJ-45 connector is capable of being used through an RJ-45 Ethernet port.

Select one:

- ☐ True
- ☒ False

**Question 5**

Complete

Mark 5.00 out of 5.00

How many cable pairs are needed for 1000Base-T transmission over CAT5e cable?

Select one:

- ☒ a. 4
- ☐ b. 2
- ☐ c. 6
- ☐ d. 8

**Question 6**

Complete

Mark 5.00 out of 5.00

A measure of a signal's strength at any given time is known as which term below?

Select one:

- ☐ a. phase
- ☐ b. frequency
- ☐ c. wavelength
- ☒ d. amplitude

**Question 7**

Complete

Mark 5.00 out of 5.00

WDM divides a beam of light into how many different wavelengths or colors?

Select one:

- ☐ a. 20
- ☐ b. 10
- ☒ c. 40
- ☐ d. 30

**Question 8**

Complete

Mark 5.00 out of 5.00

What is the maximum supported throughput of a CAT6 cable?

Select one:

- ☐ a. 100 Gbps
- ☐ b. 100 Mbps
- ☒ c. 10 Gbps
- ☐ d. 1 Gbps

**Question 9**

Complete

Mark 5.00 out of 5.00

Digital signals are composed of pulses of precise, positive voltages and zero voltages.

Select one:

- ☒ True
- ☐ False

**Question 10**

Complete Mark 5.00 out of 5.00

What type of cross-talk occurs between wire pairs near the source of a signal?

Select one:

- ☒ a. near end cross talk
- ☐ b. alien cross talk
- ☐ c. pair migration cross talk
- ☐ d. far end cross talk

**Question 11**

Complete Mark 2.50 out of 5.00

What is the maximum supported throughput and bandwidth / signal rate of Cat 5e?

Select one or more:

- ☐ a. 350 MHz
- ☒ b. 1000 Mbps
- ☐ c. 100 Mbps
- ☐ d. 100 MHz

**Question 12**

Complete Mark 5.00 out of 5.00

The most common multiplexing technology used in conjunction with fiber optics is which option below?

Select one:

- ☐ a. FDM
- ☒ b. DWDM
- ☐ c. CWDM
- ☐ d. WDM

**Question 13**

Complete Mark 0.00 out of 5.00

What is the maximum distance for 10GBase-ER and 10GBase-EW on a segment of single mode fiber?

Select one:

- ☐ a. 550m
- ☒ b. 300m
- ☐ c. 40km
- ☐ d. 10km

**Question 14**

Complete Mark 5.00 out of 5.00

What term below is used to describe the outer-most layer of protective covering of a coaxial cable?

Select one:

- ☐ a. shield
- ☐ b. braiding
- ☐ c. insulation
- ☒ d. sheath

**Question 15**

Complete Mark 5.00 out of 5.00

The number of times that a wave's amplitude cycles from its starting point, through its highest amplitude and its lowest amplitude, and back to its starting point over a fixed period of time, is known as what term below?

Select one:

- ☐ a. phase
- ☐ b. amplitude
- ☒ c. frequency
- ☐ d. wavelength

**Question 16**

Complete Mark 5.00 out of 5.00

Using a form of transmission that allows multiple signals to travel simultaneously over one medium is known as which of the following options?

Select one:

- ☐ a. embedding
- ☐ b. coupling
- ☒ c. multiplexing
- ☐ d. modulating

**Question 17**

Complete Mark 0.00 out of 5.00

Phone companies make use of what type of multiplexing in order to allow for phone services and DSL services over the same line?

Select one:

- ☐ a. FDM
- ☒ b. CWDM
- ☐ c. DWDM
- ☐ d. WDM



**Question 18**

Complete Mark 0.00 out of 5.00

Because digital signals do not depend on amplitude or frequency differences to communicate information, they are more vulnerable to EMI noise.

Select one:

- ☒ True
- ☐ False

**Question 19**

Complete Mark 0.00 out of 5.00

Which type of multiplexing is defined by wavelength instead of frequency?

Select one:

- ☐ a. FDM
- ☒ b. WDM
- ☐ c. DWDM
- ☐ d. CWDM

**Question 20**

Complete Mark 5.00 out of 5.00

Using DWDM, a single fiber can carry between what two numbers of channels?

Select one or more:

- ☐ a. 60
- ☐ b. 200
- ☒ c. 160
- ☒ d. 80