


No 1



**Cisco Networking Academy Program**  
CCNA 1: Networking Basics

## Chapter 4 Quiz

**Question 1:**  
What is required for electrons to flow?

- a closed loop of conductors
- an open loop of insulators
- a closed loop of insulators
- an open loop of conductors

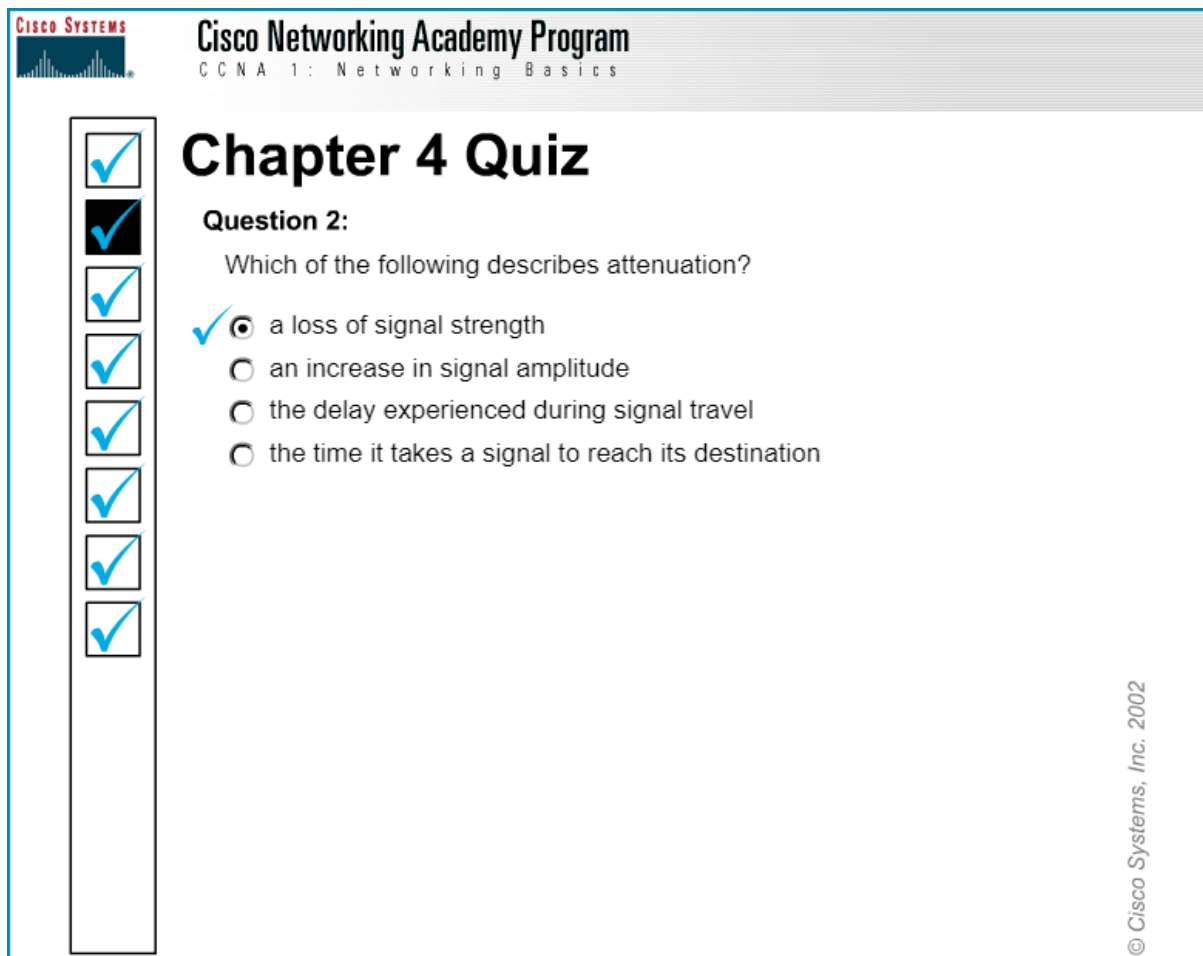
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Soal no 1

What is required for electrons to flow ?

A. a closed loop of conductors

No 2



The screenshot shows a quiz interface for Cisco Networking Academy. At the top left is the Cisco Systems logo. The main header reads "Cisco Networking Academy Program" and "CCNA 1: Networking Basics". The quiz title is "Chapter 4 Quiz". On the left side, there is a vertical list of eight checkboxes, all of which are checked. The first checkbox is highlighted with a black background. The question is "Question 2: Which of the following describes attenuation?". The options are: "a loss of signal strength" (selected with a blue checkmark and a radio button), "an increase in signal amplitude", "the delay experienced during signal travel", and "the time it takes a signal to reach its destination". The copyright notice "© Cisco Systems, Inc. 2002" is located in the bottom right corner.


No 2

Which of the following describes attenuation ?

A. a loss of signal strength

Attenuation mengacu pada pelemahan sinyal selama ia berjalan melalui kabel. Ia kadang disebut sebagai roll off. Selama sinyal mengalir melalui kawat, gelombang kotaknya berubah bentuk sejauh ia mengalir. Jadi, attenuasi sebenarnya adalah fungsi dari panjang kabel. Jika sinyal mengalir terlalu jauh, ia bisa menurun kualitasnya sehingga stasiun penerimanya tidak mampu lagi menginterpretasikannya dan komunikasi akan gagal.

No 3



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## Chapter 4 Quiz

**Question 3:**  
Which of the following is a cause of crosstalk?

- poorly terminated network cabling
- the loss of a signal's ground reference
- AC line noise coming from a nearby video monitor or hard disk drive
- FM Radio signals, TV signals, various types of office equipment

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No 3

Which of the following is a cause of crosstalk?

A. poorly terminated network cabling

Crosstalk diakibatkan oleh saluran yang saling berdekatan menyebabkan gelombang elektromagnetik yang saling berhubungan dan tercampur. Biasanya terjadi pada kabel UTP, kabel coaxial yang melewatkan banyak sinyal, atau pada antena sistem transmisi microwave.


No 4

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## Chapter 4 Quiz

**Question 4:**  
Which material is considered an electrical semiconductor?

- air
- silicon
- glass
- gold



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No 4

Which material is considered an electrical semiconductor ?

B. silicon

Bahan semikonduksi yang sering digunakan adalah silikon, germanium, dan gallium arsenide.

No 5



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## Chapter 4 Quiz

**Question 5:**  
Which of the following describes Manchester encoding?

- Bits are represented by transitions in voltage.
- Bits are represented by +5V (or +3.3V) and 0V values.
- Bits are represented by modulations in the frequency of a carrier wave.
- Bits are represented by modulations in the amplitude of a carrier wave.

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No 5

**Which of the following describes manchester encoding ?**

**A . bits are represented by transitions in voltage**

Manchester Pengkodean Manchester yang digunakan jaringan LAN.  
PengkodeanManchester , menggunakan level

-

V dan +V dengan transisi ditengah-tengah bit data biner.Data biner 0  
dinyatakan dengan transisi level tegangan dari +V menuju


-

V, sedangkan databiner 1 dinyatakan dengan transisi level tegangan dari

-

V menuju +V.

No 6



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## Chapter 4 Quiz

**Question 6:**  
What must occur before Layer 2 devices can process a signal that has been transmitted on their LAN segment?

- The frame must be encoded as bits.
- The signal must be decoded into a packet.
- The signal must be converted from voltages to bits.
- The signal must be converted from bits to voltages.


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No 6

What must occur before layer 2 devices can process a signal that has been transmitted on their LAN segment ?

C . the signal must be decoded from voltages to bits

No 7



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## Chapter 4 Quiz

**Question 7:**  
Which of the following is a design goal when planning Ethernet networks?

- increasing the number of collision domains
- localizing and minimizing the number of collisions
- enlarging and extending physical network segments
- maximizing the number of hosts that have access to the shared medium

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No 7

Which of the following is a design goal when planning ethernet networks ?

**B. localizing and minimizing the number of collisions**

No 8



## Chapter 4 Quiz

### Question 8:

What does the *ground plane* provide in a computer circuit board?

- heat sink
- high resistance to ground
- signal reference ground
- spike dampening



No 8

What does the ground plane provide in a computer circuit board ?

C . signal reference ground