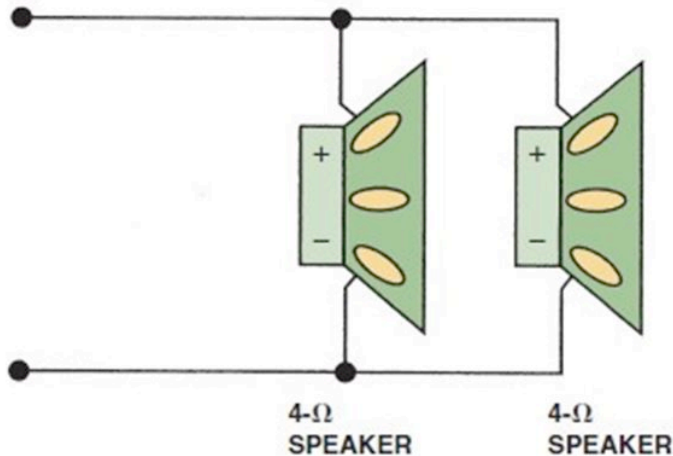


Name \_\_\_\_\_

**MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.**

1) These speakers have a combined impedance of \_\_\_\_\_.

1) \_\_\_\_\_



- A) 2 ohms
- B) 8 ohms
- C) 12 ohms
- D) 16 ohms

2) Technician A says that radios receive AM and FM signals that are broadcast through the air. Technician B says that the radio antenna is used to induce a very large voltage signal as an input into the radio from the electromagnetic energy from the broadcast station. Which technician is correct?

2) \_\_\_\_\_

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

3) Technician A says that crossovers are used to block certain frequencies to allow each type of speaker to perform its job better. Technician B says that a high-pass filter is used to block high-frequency sounds being sent to large woofer speakers, and a low-pass filter blocks low-frequency sounds being sent to tweeters. Which technician is correct?

3) \_\_\_\_\_

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

4) More than one signal can be carried by a radio wave using a process called \_\_\_\_\_.

4) \_\_\_\_\_

- A) Sideband operation
- B) Frontband operation
- C) Frequency modulation
- D) Amplitude modulation

- 5) A(An) \_\_\_\_\_ is the time and distance between two consecutive points, either high or low. 5) \_\_\_\_\_  
A) Frequency  
B) Wavelength  
C) Amplitude  
D) Period
- 6) XM radio service uses \_\_\_\_\_ to transmit the audio signal. 6) \_\_\_\_\_  
A) Satellites  
B) Repeater towers  
C) Both A and B  
D) Neither A nor B
- 7) A Bluetooth device uses \_\_\_\_\_ for short range communication. 7) \_\_\_\_\_  
A) Infrared waves  
B) ISM band radio waves  
C) Coaxial cables  
D) Banana plugs
- 8) Technician A says that a braided ground wire is best to use for audio equipment to help reduce interference. Technician B says to use insulated 14 gauge or larger ground wire to reduce interference. Which technician is correct? 8) \_\_\_\_\_  
A) Technician A only  
B) Technician B only  
C) Both technicians  
D) Neither technician
- 9) What device passes AC interference to ground and blocks DC voltage, and is used to control radio interference? 9) \_\_\_\_\_  
A) Resistor  
B) Capacitor  
C) Coil (inductor)  
D) Both capacitor and coil
- 10) A bolt of lightning generates broad radio frequency bandwidths known as \_\_\_\_\_. 10) \_\_\_\_\_  
A) Frequency Modulation (FM)  
B) Electromagnetic Interference (EMI)  
C) Radio Frequency Interference (RFI)  
D) Both B and C

## Answer Key

Testname: AEE6\_30B

1) A

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2) A

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3) A

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4) A

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5) B

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6) C

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7) B

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8) A

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9) B

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10) D

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