

Name _____

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

- 1) More than one signal can be carried by a radio wave using a process called _____. 1) _____
A) sideband operation
B) frontband operation
C) frequency modulation
D) amplitude modulation
- 2) XM radio service uses _____ to transmit the audio signal. 2) _____
A) satellites
B) repeater towers
C) both A and B
D) neither A nor B
- 3) Technician A says that radios receive AM and FM signals that are broadcast through the air. 3) _____
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. Who is right?
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician
- 4) Technician A says that a braided ground wire is best to use for audio equipment to help reduce 4) _____
interference. Technician B says to use insulated 14 gauge or larger ground wire to reduce
interference. Who is right?
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician
- 5) The number of times a particular waveform repeats itself in a given amount of time (frequency) 5) _____
is measured in _____.
A) Hertz
B) Coulombs
C) Ersteads
D) Watts
- 6) A bolt of lightning generates broad radio frequency bandwidths known as _____. 6) _____
A) frequency modulation (FM)
B) electromagnetic interference (EMI)
C) radio frequency interference (RFI)
D) both B and C

- 7) 100,000 μF means _____. 7) _____
A) 0.10 farad
B) 0.01 farad
C) 0.001 farad
D) 0.0001 farad
- 8) If two 4 ohm speakers are connected in parallel, meaning positive (+) to positive (+) and negative (-) to negative (-), the total impedance will be _____. 8) _____
A) 8 ohms
B) 6 ohms
C) 2 ohms
D) 1 ohm
- 9) All of these can cause radio interference, EXCEPT _____. 9) _____
A) defective alternator
B) fault in the ignition system
C) loose ground wire
D) open in the radio power circuit
- 10) An antenna lead-in wire should have how many ohms of resistance between the center terminal and the grounded outer covering? 10) _____
A) Less than 5 ohms
B) 5-50 ohms
C) 300-500 ohms
D) Infinity (OL)

Answer Key

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1) A

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2) C

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3) A

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4) A

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5) A

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6) D

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7) A

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8) C

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9) D

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10) D

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