

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

Testname: AT6_77B

1) A

Page Ref: 738

2) C

Page Ref: 746

3) A

Page Ref: 739

4) A

Page Ref: 748

5) A

Page Ref: 737

6) D

Page Ref: 738

7) A

Page Ref: 744

8) C

Page Ref: 742

9) D

Page Ref: 747

10) D

Page Ref: 740