

Name: \_\_\_\_\_

Date: \_\_\_\_\_

1. What is modulation in the context of radio frequency?
  - A. The process of adding information to a constant frequency.
  - B. The variation in amplitude of a wave.
  - C. The speed at which radio waves travel.
  - D. The distance between two consecutive points of a wave.
  
2. Which of the following is NOT a type of modulation mentioned in the chapter?
  - A. Amplitude modulation (AM)
  - B. Frequency modulation (FM)
  - C. Phase modulation (PM)
  - D. None of the above
  
3. What is the primary characteristic of AM waves?
  - A. They have a frequency that can be varied.
  - B. They have amplitude that can be varied.
  - C. They bounce off the ionosphere.
  - D. They are affected by lightning.
  
4. Which of the following best describes FM waves?
  - A. They have amplitude that can be varied.
  - B. They have a frequency that can be varied.
  - C. They are best received with a long antenna.
  - D. They are not affected by electromagnetic interference.
  
5. What is the process called when more than one signal is carried by a radio wave?
  - A. Modulation
  - B. Frequency variation
  - C. Sideband operation
  - D. Amplitude variation
  
6. Which sideband carries one channel of the stereo signal in stereo broadcasts?
  - A. Lower sideband
  - B. Upper sideband
  - C. Both sidebands
  - D. Neither sideband
  
7. What type of interference is generated by a bolt of lightning?
  - A. Electromagnetic interference (EMI)
  - B. Radio-frequency interference (RFI)
  - C. Acoustical interference
  - D. Modulation interference

8. Which of the following is a characteristic of AM radio reception?

- A. It can be achieved over short distances.
- B. It is not affected by the ionosphere.
- C. It can be achieved over long distances.
- D. It requires a short antenna for best reception.

9. What is the typical height for optimal FM reception using a fixed-length antenna?

- A. 31 inches (79 cm)
- B. 20 inches (50 cm)
- C. 40 inches (101 cm)
- D. 50 inches (127 cm)

10. Which type of antenna contains multiple antennas, including radio, GPS, and cellular system antennas?

- A. Fixed-length antenna
- B. Windshield antenna
- C. Shark-fin antenna
- D. Satellite antenna

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Chapter 59

Multiple Choice Quiz A

Answer Key

1. A

2. C

3. B

4. B

5. C

6. B

7. B

8. C

9. A

10. C