

## Radio Waves Quiz PDF

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#### What is the primary use of radio waves in medicine?

- X-rays
- Ultrasound
- MRI
- CT scans

#### What is the typical frequency range of radio waves?

- 300 GHz to 3 THz
- 30 Hz to 300 GHz
- 3 kHz to 30 MHz
- 300 MHz to 3 GHz

#### What is the main factor affecting the propagation of radio waves?

- Color
- Temperature
- Frequency
- Weight

#### Which band of the radio spectrum is typically used for FM radio broadcasting?

- AM
- VHF
- UHF
- SHF

#### Which organization is responsible for regulating the radio spectrum internationally?

- WHO
- FCC

- ITU
- NASA

**In what ways do radio waves contribute to scientific research, particularly in astronomy?**

**How has the development of 5G technology influenced the demand for radio spectrum?**

**Explain how radio waves are generated in antennas.**

**Which applications use radio waves? (Select all that apply)**

- Television broadcasting
- Ultrasound imaging
- Wi-Fi
- X-ray imaging

**What are the challenges related to radio wave usage? (Select all that apply)**

- Interference
- Spectrum scarcity
- High cost of production
- Limited bandwidth

**What are some modes of radio wave propagation? (Select all that apply)**

- Ground waves
- Water waves
- Sky waves
- Line-of-sight

**Which technologies rely on radio waves? (Select all that apply)**

- Bluetooth
- Fiber optics
- AM radio
- Microwave ovens

**Describe the impact of radio waves on modern communication.**

**Discuss the role of the ionosphere in radio wave propagation.**

**What are the health and safety guidelines for exposure to radio waves?**

**What factors can affect radio wave propagation? (Select all that apply)**

- Terrain
- Weather
- Time of day
- Color of the wave

**Which of the following is NOT a typical application of radio waves?**

- GPS systems
- Infrared imaging
- Satellite communication
- Radar

**Which of the following is a natural source of radio waves?**

- Cell phones
- Lightning
- Television transmitters
- Wi-Fi routers

**Which of the following are artificial sources of radio waves? (Select all that apply)**

- Stars
- Cell phones
- Radar systems
- Lightning

**What type of radio wave propagation involves reflection by the ionosphere?**

- Ground waves
- Sky waves
- Line-of-sight

Surface waves