

# Antenna Designer Practice Test Questions and Answers

## 1. What is the relationship between antenna length and wavelength for a basic dipole antenna?

- A) Length equals one full wavelength
- B) Length equals half wavelength
- C) Length equals quarter wavelength
- D) Length is independent of wavelength

## 2. What does antenna gain measure?

- A) Physical size of the antenna
- B) Directional radiation efficiency compared to an isotropic radiator
- C) Power consumption of the antenna
- D) Manufacturing cost

## 3. What is VSWR in antenna design?

- A) Very Small Wave Reflection
- B) Voltage Standing Wave Ratio
- C) Variable Signal Wave Reception
- D) Vertical Signal Wave Radiation

## 4. Which antenna type provides the most directional radiation pattern?

- A) Omnidirectional antenna
- B) Yagi antenna
- C) Dipole antenna
- D) Loop antenna

Answers: 1-B 2-B 3-B 4-B

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