

Fundamentals of Data Communication and Networking

Telecommunications Engineering · Practice Test · 10 Questions

1. Which historical method of communication utilized the positioning of flags?

- A) Smoke Signals
- B) Pigeon Courier
- C) Semaphore Flags
- D) Pony Express

2. What is the defining feature of 5G mobile technology?

- A) Analog signals
- B) SMS
- C) High-speed streaming
- D) Beamforming

3. In the Shannon Model, what component converts information into an electrical signal?

- A) Source
- B) Source Encoder
- C) Transmitter
- D) Sink

4. Which network topology requires a line terminator to prevent signal bouncing?

- A) Star
- B) Ring
- C) Bus
- D) Mesh

5. What is the maximum typical range for a Personal Area Network (PAN)?

- A) 10 meters
- B) 100 meters
- C) 1 kilometer
- D) 10 kilometers

6. Which signal property refers to the number of waves passing a point per second?

- A) Wavelength
- B) Amplitude
- C) Frequency
- D) Period

7. What is the process of converting digital data into analog radio waves?

- A) Demodulation
- B) Modulation
- C) Quantization
- D) Sampling

8. Which category of noise is caused by natural phenomena like lightning?

- A) Thermal
- B) Shot
- C) Atmospheric
- D) Man-made

9. What does the acronym 'Modem' stand for?

- A) Modern Demodulator
- B) Modular Demodulation
- C) Modulator/Demodulator
- D) Mobile Demodulator

10. Which impairment is described as the loss of signal strength over distance?

- A) Attenuation
- B) Distortion
- C) Thermal Noise
- D) Shot Noise