Wired vs. Wireless Networks

**Instructions**: Fill in the blanks with the appropriate word or phrase.

1. A \_\_\_\_\_\_\_\_\_\_ network uses physical cables to transmit data, while a \_\_\_\_\_\_\_\_\_\_ network transmits data through electromagnetic waves without the need for physical cables.

2. \_\_\_\_\_\_\_\_\_\_ cables have high bandwidth, immunity to electromagnetic interference, and long-distance transmission capabilities.

3. \_\_\_\_\_\_\_\_\_\_ cables are lower in cost, flexible, and compatible with existing infrastructure.

4. Bluetooth is a mode of \_\_\_\_\_\_\_\_\_\_ connection commonly used to connect devices like smartphones, headphones, and speakers.

5. Wireless networks offer \_\_\_\_\_\_\_\_\_\_, flexibility, and easy installation.

6. Wireless networks have \_\_\_\_\_\_\_\_\_\_ range, susceptibility to interference, and potential security risks.

# Advantages and Disadvantages of Wired and Wireless Networks

**Instructions**: Read the advantages and disadvantages listed below. Write "W" if it applies to wired networks, "WW" if it applies to wireless networks, or "Both" if it applies to both wired and wireless networks.

Advantages:

1. \_\_\_\_\_\_\_\_\_\_ Higher bandwidth

2. \_\_\_\_\_\_\_\_\_\_ Mobility

3. \_\_\_\_\_\_\_\_\_\_ Easy installation

4. \_\_\_\_\_\_\_\_\_\_ Lower cost

5. \_\_\_\_\_\_\_\_\_\_ Immunity to electromagnetic interference

6. \_\_\_\_\_\_\_\_\_\_ Compatibility with existing infrastructure

Disadvantages:

1. \_\_\_\_\_\_\_\_\_\_ Limited range

2. \_\_\_\_\_\_\_\_\_\_ Susceptibility to interference

3. \_\_\_\_\_\_\_\_\_\_ Potential security risks

4. \_\_\_\_\_\_\_\_\_\_ Flexibility

5. \_\_\_\_\_\_\_\_\_\_ Long-distance transmission capabilities

6. \_\_\_\_\_\_\_\_\_\_ Easy to set up