1. What is the main difference between 1G and 2G wireless mobile networks?

2. What are key network parameters related to the channel capacity of a simple point-to-point communication system?

3. (Slide 11) When the channel bandwidth W (Hz) increases infinitely, the channel capacity C (bits/sec)

   (a) increases linearly to infinity
   (b) increases logarithmically to infinity
   (c) Increases, and then approaches to a constant
   (d) decreases, and then approaches to a constant

4. (Slide 11) Sketch the channel capacity C (bits/sec) vs bandwidth W (Hz) plot when other parameters are fixed.

5. What is the key wireless technology used for the 4G wireless mobile networks?

6. What does MIMO stand for? What is a key difference between MIMO and Massive MIMO implementations?