

Cellular Mobile Communication – Spring 2020

Assignment #1

Instructions:

- Submission deadline is 8th June 2020. Late submission is not permitted and assignments handed in after the date will be returned unmarked and a mark of ZERO awarded.
- The assignment is an individual assignment and individual submissions are required.
- Assignment must be submitted on A4 paper either written by hand or with the help of a computer. No folders, binding, plastic sleeves, etc.
- *Students are respectfully reminded of the University and Department's policy on Plagiarism. Any submission that is either not original or bears an unacceptable similarity to a 3rd party document or submission will be awarded ZERO for the entire assignment.*

Q 1: Write in detail about the concept of 3G technology along with its architectural Diagram.

Q 2: Write in detail about the concept of 4G technology along with its architectural Diagram.

Q 3: Write in detail about the concept of 5G technology along with its **emerging disruptive technologies**.

Hint: The five disruptive technologies for 5G according to the Henderson-Clark model.

Q4: Write in detail about the MIMO and Massive MIMO technologies. Also Differentiate them diagrammatically.

(It should be your own wording. If its copied and plagiarized, you will get zero marks for this question.)