

Assignment 2

Nanoelectronics (EC-707)

Year: 4th

Groups: EC1 and EC2

Q1. Explain the term QED?

Q2. Differentiate between Ideal and Real Switches.

Q3. What is Short Channel MOS Transistors and draw its Characteristics.

Q4. What is a Fredkin Gate? How can it be used to design a XOR Gate?

Q5. Explain the Quantum Dot Array?

Q6. Explain what are threshold gates?

Q7. Explain the term RTD? Draw its I-V characteristics.