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EC 8453 Linear Integrated Circuits

Important 2mark questions

Unit I

1. State the significance of current mirror circuit.
2. State the application of LF 155.
3. Differentiate the ideal and practical characteristics of an op-amp.

Unit II

1. Draw the circuit diagram of a comparator. Mention its applications.
2. How does a zero crossing detector work?
3. Define Slew rate and what causes the slew rate?

Unit III

1. What is Gilbert multiplier cell?
2. List the basic building blocks of PLL.
3. What is a four quadrant multiplier?

Unit IV

1. Define setting time.
2. What is over sampling?
3. Draw the binary ladder network of DAC. If the value of the smaller resistance is 10 k, what is the value of the other resistance?

Unit V

1. What are the types of multivibrator?
2. State the two conditions for oscillation.
3. What is an isolation amplifier? Mention its applications.