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Fourth Semester

Electronics and Communication Engineering

EC 3451 — LINEAR INTEGRATED CIRCUITS

(Common to : Electronics and Telecommunication Engineering)

(Regulations 2021)

Time : Three hours | Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is slew rate? How is it significant?
2. Compare open loop and closed loop operation of an operational amplifier.
3. Draw the diagram of OPAMP as integrator and differentiator.
4. How does a precision rectifier differ from an ordinary rectifier?
5. List analog multiplier IC's.
6. Draw the pin diagram of IC565.
7. Which is the fastest ADC? Justify.
8. Why inverted R-2R DAC is preferred than R-2R DAC?
9. How current boosting is done in voltage regulator?
10. Sketch the circuit of sine wave generator.

PART B — (5 × 13 = 65 marks)

11. (a) Discuss about LF155 MOSFET operational amplifier.

Or

(b) Draw the equivalent circuit of general operational amplifier and explain its working.

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