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	Reg. No. :
	Question Paper Code: 50492
	B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2023.
	Fourth Semester
	Electronics and Communication Engineering
	EC 8453 – LINEAR INTEGRATED CIRCUITS
	(Common to: Biomedical Engineering/Medical Electronics/Robotics and Automation)
	(Regulations 2017)
	Time: Three hours Maximum: 100 marks
	Answer ALL questions.
	PART A — $(10 \times 2 = 20 \text{ marks})$
	1. Define slew rate.
	2. Compare LF155 and TL082.
	3. Write a technical note on adder, subtractor and integrator.
	4. What is the purpose of Butterworth filters?
	5. List the applications of PLL for AM detection.
	6. State variable transconductunce technique.
	7. What do you understand from voltage and current modes?
	8. Give a note on sigma to delta converters.
	9. Give the principle of multivibrators.
	10. Draw the block diagram of IC 555 timer.
	PART B — $(5 \times 13 = 65 \text{ marks})$
	11. (a) Explain with an internal circuit diagram of IC 741.
	Or
	(b) Elaborate of Op amp stages and give basic information on Op-amps.

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