	Reg. No.	:		0475
	Question	Paner Co	de:50475	
	question	1 aper co	10.00110	
EE 6303	Electrical a LINEAR INTEGE Electronics and Ins Co	Third Semester nd Electronics E RATED CIRCU	Ingineering ITS AND APPLICA' ngineering/Instrum ng) 3)	FIONS dentation and
Time: Three Hours			Maximu	
	An An	swer ALL question	ons and malore b	
		PART – A		×2=20 Marks)
1. State the li	mitations of IC tech	nology.		
2. Distinguish	h between dry etchir	ng and wet etchin	g. musel trustroquit as	
3. A 100 pF ca its slew rate		m charging curre	nt of 100 microampere	. Calculate
4. What is the drawback of IC 741?				
5. What is the	e use of sample and	hold circuit ?		
6. Write any t	two applications of c	lipper and clamp	er. levsw ban amerya	
7. Define PULL time of PLL.				
8. Where is the analog multiplier circuit used?		ort notes on :		
9. What is an	isolation amplifier	?		
10. List the cha	aracteristics of opto	coupler.		
		PART – B	(5×	13=65 Marks)
			technology with neat	
	(OR)			
			ckages.	

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12. a) Explain the following term	s in an OP-AMP :	
i) Bias current	on Paper Code	(3)
ii) Thermal drift		(3)
iii) Input offset voltage and	l current	(4)
iv) Virtual ground.		(3)
(OR)		
b) Draw the circuit of a symn	netrical emitter coupled di	fferential amplifier and
derive for CMRR.	ing the firm muritant b	(13)
13. a) With neat diagram, explain	n the working principle of	
i) R-2R ladder type DAC	r and norming bringible of	(7)
ii) Weighted resistor DAC	(6)	
(OR)		(0)
	.;tf	
b) Draw and explain the circu derive its transfer function	n.	rworth low pass filter and (13)
	A STATE OF THE STA	the second second second second
14. a) i) Briefly explain the different		ting modes of 555 Timer. (7)
ii) List the important featu	re of 555 Timer.	(6)
(OR)		
b) Write a note on:		
i) Analog multipliers	ii) VCO.	(8+5)
15 a) Briefly overlain the marking		
<ol> <li>a) Briefly explain the working circuit diagrams and wavef</li> </ol>		
(OR)	and display may carried	(13)
b) Write short notes on:	Phone having teals;	S. Where is the analogonal.
i) LM 380 Power Audio Ar		(6)
ii) ICL 8038 Function gen	erator IC.	(7)
	PART – C	(1×15=15 Marks)
16. a) What are the new trends in	a integrated simult to the	J
its scope for future generat	ion	ologies and explain about
(OR)	TOTAL CHEMICAL PROPERTY OF THE PARTY OF THE	
		(40)
b) Explain in detail the recer	it tabrication methods of o	liode and capacitance for