	Hal	l Ticket Number :												Г		ı
	Coc	le: 7G353										<u> </u>	_		R-17	
	III B.Tech. I Semester Supplementary Examinations Nov/Dec 2023  Analog & Digital Integrated Circuits Applications															
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	Max. Marks: 70  Time: 3 Hours  Answer any five full questions by choosing one question from each unit (5x14 = 70 Marks)  ***********************************														Time: 3 Hours 14 = 70 Marks )	
								NIT-	ı							
1.		Analyze the behav	ior o	f Tria	angul	ar w			ļ	with	neat	sket	tches.			14M
		,			Ū			OR								
2.	a) List the types of ICs and Interpret circuit complexity.														7M	
	b)	Identify the applica	ations	s of C	Op-aı	mp a	nd its	s adv	anta	ges.						7M
_								NIT-I				_				
3.		Explain the Astable	e and	oM b	nosta	able	Multi		tor u	sing	Op-Æ	√mp	with a	n	eat diagram.	14M
4.	a)	Discuss about adva	ntan	AS 21	nd di	sadv	antar	OR	f Flac	hΔD	C O	ıar cı	ICCASS	eiv	annrovimation	
٦.	aj	type ADC	untag	C3 ai	iu ui	sauvi	απας	JC3 U	i i ias	וו אט	/O 01	/Ci 30	40003	SIV	c approximation	6M
	b)	b) Summarize the working principle of R-2R ladder DAC														8M
						1										
								IIT–I								
5.	a)	Differentiate between						nilies								7M
	b)	,													7M	
6.	a)	Differentiate between	en fi	ıncti	ons a	and r	roce	OR dure	e e							8M
0.	b)	List out the advant				•				amili	ies					6M
	-,		3				3									-
							UN	IIT–ľ	V							
7.		Discuss about IC 7	74x8	5 witl	h its	VHD	L pro	gran	٦.							14M
								OR								
8.	a)	List out the advant	•				onal	Circu	uits							6M
	b) Design Full adder using half adders.														8M	
							1 12	<del>.</del> .	,							
0		Discuss about VIII	יש וח	roarc	m fo	rog		VP-h			SUM#	ar	ina D	fl:-	flone	1 4 1 1
9.		Discuss about VH	⊃∟ bi	ogra	aiii IO	паз	-טונ 9	yncr <b>OR</b>	110110	us CC	Junte	zı us	ıııg D	IIIķ	лиръ.	14M
10.		Explain about Imp	edim	ents	to sv	nchr	ัดทดเ		esian							14M
		p	- <del>-</del>	J. 1.0	,			**	2.9.1							