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Hall Ticket Number :															
Code: 4G375										R-14	4				
IV B.Tech. I Semester Supplementary Examinations April 2019															
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Max	Μα	(El ırks: 70	ectro	nic	s an	a C	omn	าบทเ	catio	on Ei	ngin	eeri	ng)	Time: 3 I	Hours
	Answer all five units by choosing one question from each unit ($5 \times 14 = 70$ Marks)														
						Γ									
1.	a)	UNIT-I With a neat block diagram, explain the working of a TV transmitter in detail.													
	b)	Write short notes on: i) Aspect Ratio ii) Kell factor iii) Persistence of vision											on		
	D)	iv) Resolution											JI1		
OR															
2.	a)	With a neat b	lock o	diag	ram e	expla	in the	ope	ratio	n of b	asic	TV 1	ransm	itter	
	b)	Explain the in	nporta	ance	of ir	nterla	ced s	scanr	ing \	vith a	nea	t dia	gram.		
							UN	IT–II							
3.	a)	Differentiate between a monochrome and colour TV camera tubes.													
	b)	Explain the monochrome picture tube working with a neat sketch.													
	OR														
4.		State and b diode array v	•	•							pict	ure t	ube? [Explain silic	on
							UN	IT–III							
5.	a)	Discuss briefly about sync separation and processing in monochrome television receiver.												on	
	b)	Explain the functioning of IF subsystem in monochrome TV receiver.													
		OR													
6.	a)	Draw the block diagram of the sound section of a monochrome TV receiver and explain the functions preformed by each block.											nd		
	b)	Explain the block diagram of video amplifier in black and white receiver.													
							UNI	IT–IV	'						
7.	a)	Draw the block diagram of VHF tuner of TV receiver and explain.													
	b)	Explain how electronic tur		-				and	mai	ntaine	ed b	y us	ing di	gital tuning	of

OR

- 8. a) What are the functions performed by a TV receiver tuner?
 - b) Explain the block diagram of digital FM detector.

UNIT-V

- 9. a) Explain the working principle of color killer circuit with a neat sketch
 - b) Explain the PAL-D decoder with the help of a neat block diagram.

OR

- 10. a) Draw the block diagram of PAL encoder & decoder and explain its functioning. Compare its performances with NTSC system.
 - b) Why a burst of subcarrier is sent along with the sync & blanking pulses.
