17537

3 Hours / 100 M	[arks	Seat No.							
Instructions :	 (2) Answe (3) Illustr (4) Figure (5) Assun (6) Use of permin (7) Mobil 	e Phone, Pager	in ques rs with idicate , if nece mable and an	tion on a neat sket full mar essary. Electron	ches w ks. iic Poo	herev cket (Calcul	ator i	is
	device	es are not permi	ssible i	n Examın	ation I	Hall.			4 1
								N	Marks
1. A) Attempt any three									12
a) Compare woot	_	=	-	_			1. 1		
b) Draw construct		of Dish antenna '	! List ar	y tour spe	ecificat	ion of	dish ai	ntenna	•
c) Define the folloi) Interlace so	_								
ii) Aspect rat	_								
d) Draw the block		CD plaver.							
B) Attempt any one:		F,							6
a) Draw the block	k diagram of	ColorTV Receiv	er (PA)	(L-D) and	label it	_			
b) Draw the EHT	_						of san	ne ckt.	
	C	C		1	1				4.
2. Attempt any four:									16
a) Draw the block dia	agram of PAI	D decoder syst	em.						
b) List CCIRB standa	ards for colou	r signal transmiss	sion and	l reception	n (any e	eight).			
c) Explain working pr	rinciple of LC	CDTV.							
d) List advantages of	Vaccum flore	escent.							

e) Describe NHK and MOSE system for HDTV.

f) Draw 5 point ckt diagram for graphic equilizer.

Marks

3.	Att	tempt any four:	16
	a)	Describe the architecture of cable TV network.	
	b)	Draw the ckt diagram of Acc amplifier and explain its working principle.	
	c) Define pre-emphasis and de-emphasis.		
	d)	Explain the function of front panel controls of CD player.	
	e)	List TV channel allocation for band I and band III.	
4.	A)	Attempt any three:	12
		a) Explain/Define the following terms related to TV:i) Hueii) Luminance	
		iii) Bandwidth for color signal iv) Saturation.	
		b) Define the term positive modulation. List disadvantages of negative modulation.	
		c) With the help of neat sketch, explain CD pick-up assembly.	
		d) Explain working principle of two-way and three way attenuator/connector required for dish antenna.	
	B)	Attempt any one:	6
		a) Draw the ckt diagram of chroma signal amplifier and explain the same ckt.	
		b) Draw the composite video signal, label each section and define pedestal height and colour burst.	
5.	Att	tempt any two of the following:	16
	a)	Describe the construction and working principle of plumbicon camera tube.	
	b)	Draw and describe the working of dB meter.	
	c)	Draw the block diagram of colour TV transmitter. Describe the function of each block.	
6.	Att	tempt any four:	16
	a)	State and explain primary colour and secondary colour Grassman's law for colour theory.	
	b)	Draw delta gun picture tube.	
	c)	Compare MATV, CATV and CCTV (any 8 points).	
	d)	Describe public Address System and Mono amplifier.	
	e)	Describe the importance of pre and post equilising pulses.	