

17537

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3 Hours / 100 Marks	Seat No.								
Instructions : (1) All que (2) Illustra (3) Figures (4) Assume (5) Use of permis (6) Mobile devices	stions are com the your answer is to the right in e suitable data, Non-program sible . Phone, Pager is are not permis	pulso is with if nec mable and a ssible	ry. 1 nea e full e essa e Ele ny ot in Ex	t sketc mark ry. ectron her El camino	hes wl s. ic Poo ectron ution H	herevo cket (ic Co. Iall.	e r nec Calcu mmur	cessar <u></u> lator vicatio	y. is on
								I	Mark
 a) Attempt any three of the follow: Define audio amplifier. State is State the advantages of fluores Define the following terms : Aspect ratio Scanning Image continuity 	ing : ts type. Draw its scent display sys	frequ tem (a	ency iny fo	respoi ur).	nse cur	ve.			1
iv) Pixels.	dich ontonno								
 b) Attempt any one of the following: i) Draw block diagram of colour 7 ii) Describe how separation of U a sketch (diagram). 	τ FV transmitter a rd V signals are	nd lab e achie	el it. eved i	n colo	ur TV y	with th	ne help	pofne	at
 2. Attempt any four of the following: a) Draw and describe Yagi - Uda b) Draw composite video signal a c) Describe NHK, MUSK system d) Draw the block diagram of CI e) State working principle of LCC f) Draw basic cross over network 	antenna with ne and label its vari m for HDTV. D player. D TV with appr k and draw its r	eat ske ous pa opriat espon	etch a urts. e diag se cu	nd its 1 gram. rve.	radiatio	on pat	tern.		1

	M	arks
3.	Attempt any four of the following:	16
	a) Draw the block diagram of dB meter and describe its working principle.	
	b) Draw and describe the circuit diagram for generating EHT.	
	c) Compare Woofer, Squawker and Tweeter with respect to definition, size, weight and frequency range.	
	d) State the functions of various drive motors in CD player.	
	e) Draw with label the details of horizontal sync pulse.	
4.	a) Attempt any three of the following :	12
	i) Compare between additive colour mixing and subtractive colour mixing with respect to working principle, sketch, application and primaries used.	
	ii) Draw and describe the working of vidicon camera tube.	
	iii) With the help of neat sketch, describe working of 'pick up unit' of a CD player .iv) Draw the layout diagram for distribution of cable connection for MATV and describe it.	
	b) Attempt any one of the following:	6
	i) Draw the block diagram of PAL-D decoder. Describe the function of each block.	
	ii) State TV channel allocation for band I and band III.	
5.	Attempt any two of the following :	16
	a) Compare between positive and negative modulation (any four points).	
	b) What is CCTV? State its use. Compare CCTV with MATV (any four points).	
	c) Draw and describe the principle of delta gun tube and precision in line (PIL) picture tube.	
6.	Attempt any four of the following:	16
	a) State the need for pre-equalising and post equalising pulses in composite video signal.	
	b) Draw the block diagram of colour TV receiver.	
	c) State the need of multiplexer and attenuator in cable TV.	
	d) Draw and describe the block diagram of Hi-Fi amplifier.	
	e) State any eight CCIR-B standard for colour signal transmission and reception.	