	Reg	. No. :										
Question Paper Code: 49412												
	B.E./B.Tech. DEGREE EXAMINATION, NOV 2019											
		Ele	ctive									
	E	Electronics and Comr	nunicati	on Er	ngine	ering	2					
	14UEC9	012- TELEVISION A	AND VI	DEO	ENG	INE	ERI	NG				
		(Regula	tion 201	4)								
Dura	ation: Three hours						Ma	xim	um:	100	Mark	S
		PART A - (10	x 1 = 10) Mar	·ks)							
1.	Precise scanning size and linearity are most important in							CO	1- R			
	(a) a black-and-white	camera	(b) a	plum	nbicon	1						
	(c) a single-tube color	pickup	(d) a	satic	on							
2.	Camera signal output	without sync is calle	d								CO	1- R
	(a) Black burst		(b) C	Comp	osite	vide	0					
	(c) General lock video			(d) Non-Composite video								
3.	AGC circuit is used amplifiers.	to control the		of l	RF a	nd]	IF				CO	2- R
	(a) Voltage	(b) Gain	(c) P	ower			((d) C	urrei	nt		
4.	The in transformer from over	formation is also us load.	sed to p	orotec	t the	fly	back				CO	2- R
	(a) EHT	(b) AGC	(c) U	HF				(d)) Bot	h a a	& b	
5.	In monochrome receiver, the orange hue will appear as								CO	3- R		
	(a) Dark Gray	(b) Black	(c) B	right	Gray	,		(d)) Wh	ite		
6.	The R,G,B video drive	e controls are set for			in the	e pic	ture				CO	3- R
	(a) Gray	(b) Black dark	(c) V	Vhite				(d)) Gre	en		

7.	Which of the following stages has bias from the ACC and color killer circuit					CO4- R			
	(a) R-Y demodulator			(b) Chroma BPA					
	(c) R-Y video amplifier		(d) Color Oscillator						
8.	Which of the following stages must be on during horizontal fly back time					CO4- R			
	(a) Y video amplifier			(b) Burst amplifier					
	(c) (Chroma BPA		(d) R-Y video amplifier					
9.	Which system uses a laser light beam for playback?				CO5- R				
	(a) ((a) CED (b) tamex be (c) VHD		(d) VLF					
10.	To make the tape speed the name in playback as in recording, the tape speed is regulated by the				pe	CO5- R			
	(a) Erase head			(b) Video silent tracks aud	(b) Video silent tracks audio track				
	(c) Control-track pulses (d)			(d) Control head	(d) Control head				
			PART – B (5	x 2= 10Marks)					
11.	1. What is known as flicker?								
12.	2. List the requirements of receiving antenna.					CO2- R			
13.	5. What are the primary colors? Why are they called so?					CO3- R			
14.	. Discuss the use of ACC amplifier?					CO4- R			
15.	5. List out the Merits of digital TV receiver?					CO5- R			
			PART – C	(5 x 16= 80Marks)					
16.	(a) Illustrate the working principle of Image orthicon camera tube. Or			CO-1 U	(16)				
	(b) Explain the beam deflection principle in monochrome picture tube.			CO-1 U	(16)				
17.	(a)	Describe the bas voltage is develo the receiver.	sic principles of AGC oped and applied to 1	C and explain how the control IF and RF amplifier stages in	CO-2 U	(16)			
	(1)	F 1 ' 1 ' M	Or			(1.6)			
	(b)	Explain briefly a	about I V transmissic	on antennas.	CO-2 U	(16)			

18.	(a)	Explain the various pincushion correction techniques Or	CO-3 U	(16)
	(b)	Describe the construction details of a PLL tube and explian how its different from delta gun colour tube. What are astigmatism and errors in it?	CO-3 U	(16)
19.	(a)	Draw the block diagram and Explain the operation of PAL encoder and decoder.	CO-4 U	(16)
		Or		
	(b)	Draw the simplified block diagram of the NTSC colour receiver and explain each block.	CO-4 U	(16)
20.	(a)	Give detailed notes on Digital TV transmission and reception Or	CO-5 U	(16)
	(b)	Write notes on: (i) 3D TV. (ii) EDTA.	CO-5 U	(16)