		Reg. No. :			
		Question Pape	er Code: 49412		
	В	.E./B.Tech. DEGREE I	EXAMINATION, SEP	2020	
		Ele	ective		
		Electronics and Com	munication Engineering	2	
	14UI	EC912- TELEVISION	AND VIDEO ENGINE	ERING	
		(Regula	ation 2014)		
Dur	ation: One hour			Maximum: 30 M	Iarks
		PART A - (6	$5 \ge 1 = 6$ Marks)		
		(Answer any six of t	he following questions	5)	
1.	Which of the follo photoconductive ta	wing camera tube uses rget plate	lead oxide (PbO) for the	ne	CO1- R
	(a) Vidicon	(b) Saticon	(c) Plumbicon	(d) Image Ort	hicon
2.	Camera signal outp	put without sync is calle	ed		CO1- R
	(a) Black burst		(b) Composite vide	0	
	(c) General lock video		(d) Non-Composite video		
3.	In color picture tube, degaussing is done with CO				CO2- R
	(a) Direct current		(b) Alternating current		
	(c) 60HZ alternating current		(d) 90HZ alternating current		
4.	The number of lin tube screen is	nes scanned per frame	in the raster on the pic	cture	CO2- R
	(a) 525	(b) 625	(c) 262	(d)10	
5.	The hue of color sy	ync phase is			CO3- R
	(a) Red	(b) Cyan	(c) Blue	(d)Yellow-	green
6.	The R,G,B video d	rive controls are set for	in the pic	ture	CO3- R
	(a) Gray	(b) Black dark	(c) White	(d) Green	
7.	Which of the follow	wing stages has bias fro	om the ACC and color k	tiller	CO4- R
	(a) R-Y demodulat	or	(b) Chroma BPA		
	(c) R-Y video amplifier		(d) Color Oscillator	2	

8.	Which of the followin 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 p	olayback?		CO5- R					
	(a) CED	(b) tamex be	(c) VHD	(d) VLI	- -					
10.	To make the tape speed the name in playback as in recording, the tap speed is regulated by the				CO5- R					
	(a) Erase head (b) Video silent tracks aud		io track							
	(c) Control-track puls	es	(d) Control head							
	$PART - B (3x \ 8 = 24 \ Marks)$									
	(Answer any three of the following questions)									
11.	Explain the beam deflection principle in monochrome picture tube.			CO1-U	(8)					
12.	Draw and explain some of the TV transmitting and receiving antennas.				(8)					
13.	Discuss the gun structure and working principle of delta gun picture tube.				(8)					
14.	Draw the block diagram and Explain the operation of PAL encoder and decoder.			CO4- U	(8)					
15.	Give detailed notes on Digital TV transmission and reception.			CO5- U	(8)					