Reg. No.:					

Question Paper Code: 49412

B.E./B.Tech. DEGREE EXAMINATION, APRIL 2019

Elective

Electronics and Communication Engineering

14UEC912- TELEVISION AND VIDEO ENGINEERING

		(Regulation	on 2014)			
Duration: Three hours			Maximum: 100 Marks			
		PART A - (10 x	1 = 10 Marks)			
1.	Which of the following camera tubes has minimum lag?					
	(a) Vidicon	(b) Plumbicon	(c) Saticon	(d) Iconoscope	e	
2.	Camera signal output	without sync is called			CO1- R	
	(a) Black burst		(b) Composite video			
	(c) General lock video)	(d) Non-Composite video			
3.	AGC circuit is used amplifiers.	to control the	of RF and IF		CO2- R	
	(a) Voltage	(b) Gain	(c) Power	(d) Current		
4.	Dynamic range of IF	AGC is			CO2- R	
	(a) 33db	(b) 44db	(c) 55db	(d) 66db		
5.	In monochrome receiv	ver, the orange hue will	appear as		CO3- R	
	(a) Dark Gray	(b) Black	(c) Bright Gray	(d) White		
6.	Static convergence is	done for theo	f the screen.		CO3- R	
	(a) center	(b) edges	(c) left	(d) right		
7.	Which of the followin circuit	g stages has bias from	the ACC and color kill	ler	CO4- R	
	(a) R-Y demodulator		(b) Chroma BPA			
	(c) R-Y video amplifier		(d) Color Oscillator			

8.		ich of the following uits?	ng stages has bias	from the ACC and color killer		CO4- R
	(a)]	R-Y demodulator		(b) R-Y video amplifier		
	(c)	Chroma BPA		(d) Color oscillator		
9.	Wl	nich system uses a	a laser light beam t	for playback?		CO5- R
	(a) (CED	(b) tamex be	(c) VHD	(d)VLF	
10.	The	cable converter o	output for the TV r	eceiver is usually on channel		CO5- R
	(a) .	3	(b) 6	(c) 7	(d) 9	
			PART – B	(5 x 2= 10Marks)		
11.	Def	ine Resolution.				CO1- R
12.						CO2- R
13.						
14.	Disc	cuss the use of AC	CC amplifier?			CO4- R
15.	List	out the Merits of	digital TV receive	er?		CO5- R
			PART –	C (5 x 16= 80Marks)		
16.	(a)	With suitable di procedure.	iagrams explain ir	n detail the interlaced scanning	CO-1 U	(16)
		1	Or			
	(b)	Explain the bear tube.	n deflection princi	ple in monochrome picture	CO-1 U	(16)
17.	(a)	Draw the block explain each blo	_	ochrome television receiver and	CO-2 U	(16)
	(1-)	E1-: 1: £1	Or		CO 2 I	(16)
	(b)	Explain oriefly a	about TV transmis	sion antennas.	CO-2 U	(16)
18.	(a)	•	•	the Delta-Gun colour picture vergence are achieved in it.	CO-3 U	(16)
	(b)		nstruction details	of a PLL tube and explian how tube. What are astigmatismand	CO-3 U	(16)
19.	(a)	Draw the simpli		m of the NTSC colour receiver	CO-4 U	(16)

Or

	(b)	Explain the operation of SECAM encoder and decoder.	CO-4 U	(16)
20.	(a)	Describe the following in detail with suitable diagram. (i) Cable TV. (ii) VCR.	CO-5 U	(16)
		Or		
	(b)	(i) Draw the block diagram of satellite TV Systems and explain its operation	CO-5 U	(8)
		(ii) Explain in detail the concept behind the digital television transmission and reception	CO-5 U	(8)