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Reg. No.:										
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Question Paper Code: 59411

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

Elective

Electronics and Communication Engineering

	15UE	EC911 – TELEVISION	AND	VIDEO ENGINE	ERING			
		(Regula	ation 20)15)				
Dur	ation: Three hours				Maximum:	100 Marks		
		Answer A	LL Qu	estions				
		PART A - (S	5 x 1 =	5 Marks)				
1.	The width to heigh		CO1-R					
	(a) Vidicon	(b) Plumbicon	(c)	Saticon	(d)	Iconoscope		
2.	What is the imped	ance at the antenna inpu	ut termi	nals of a TV rece	eiver?	CO2-R		
	(a) 300 ohms	(b) 150 ohms	(c)	50 ohms	(d)	100 ohms		
3.	. CATV service provider can receive signals from					CO3-U		
	(a) satellite	(b) to	wer	(c) DVR		(d) NVR		
4.	condominiums, an	on technique where apa d multi-unit buildings eivers, using a single ho	distribu	ite TV and FM s		CO4-R		
	(a) CCTV	(b) CATV	(c)	MATV	(d)	Antenna		
5.	Active Scanning li	nes per frame in HDTV	/ is			CO5-R		
	(a) 1125	(b) 1175	(c)	1080	(d)	1250		
		PART – B (5	5 x 3= 1	5 Marks)				
6.	6. Mention the major function of the camera tube?					CO1-R		
7.	What is the main function of the blanking pulses?					CO2-R		

6. Mention the major function of the camera tube?
7. What is the main function of the blanking pulses?
8. What do you understand by satellite TV?
9. Write short notes on CCTV

10. What is meant by curved TV?

PART – C (5 x 16= 80 Marks)

11.	(a)	With a neat sketch explain vidicon camera tube and give its electrical circuit.	CO1-U	(16)				
		Or						
	(b)	Explain in detail about the Television camera tubes-Picture tubes	CO1-U	(16)				
12.	(a)	Explain the need of SECAM transmitter with a neat diagram. Or	CO2-U	(16)				
	(b)	With Neat sketch explain about the SECAM Transmitter and Receiver	CO2-U	(16)				
13.	(a)	Explain in brief about the DTH indoor and outdoor units and its frequencies.	CO3-U	(16)				
	(b)	Or Explain transponders and space craft antennas in satellite communication and calculate its gain and HPBW.	CO3-U	(16)				
14.	(a)	Give the block diagram and explain about the closed circuit television system	CO4-U	(16)				
	Or							
	(b)	What is pay TV? Discuss scrambling and descrambling techniques?	CO4-U	(16)				
15.	(a)	Explain in brief about HDTV with its advantage and disadvantage. Or	CO5-U	(16)				
	(b)	Explain in brief about curved TV and compare over smart TV	CO5-U	(16)				