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Rol	No.	Total P	ages: 2			
Ex	am. (Code	8712			
6037						
BT-7/M-11						
TELEVISION ENGINEERING-						
Paper: ECE-403(E)						
Tim	e : T	hree Hours] [Maximum Mar	[Maximum Marks: 100			
Note: Attempt five questions in all, selecting at least one						
question from each unit.						
		•				
UNIT-I						
1.	(a)	Explain fine structure of picture considering ver	tical and			
		horizontal resolution, colour resolution & bar	idwidth,			
		effect of interlace scanning on bandwidth and ba	ndwidth			
		requirement for transmission of sync. pulses	(12)			
	(b)	Explain Compatibility between colour and mon-	ochrome			
	•	TV systems.	(05)			
	(c)	What is an interlace error? Evaluate the interla	ice error			
		when the delay is 16 µs.	(03)			
2.	(a)	Explain complete channel bandwidth for CCIR	l (Indian			
	, ,	and European TV Channel), UK TV Chan	mel and			
		American TV Channel standard.	(15)			
	(b)	Explain demerits of vestigial sideband transmiss	ion. (05)			
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UNIT-II						
3.	(a)	Explain in brief block diagram of a monochr				
		receiver.	(15)			
	(b)	Explain an electron multiplier structure used in				
		tube.	(05)			
8712/650/KD/105 [P.T.C						

4.	(a)	Explain an image orthicon camera tube.	(15)	
	(b)	Explain transfer characteristics of a picture tub	e. What	
		is cut-off bias in a picture tube?	(05)	
		UNIT-III		
5.	(a)	Explain three colour theory, additive colour	mixing	
		theory and grassman's law.	(15)	
	(b)	Explain Luminance, Hue and Saturation in a co	iour TV	
		system.	(05)	
6.	(a)	Explain a Delta-gun colour picture tube.	(15)	
	(b)	Explain bandwidth requirement for colour	signal	
		transmission. http://www.kuonline.in	(05)	
		UNIT-IV		
7.	(a)	Explain CCTV and its applications.	(15)	
	(b)	Explain a Camcorder.	(05)	
8.	Write short notes on any three of the following:			
	(a)	Merits of digital TV technology.		
	(b)	Remote control.		
	(c)	Log-periodic antenna.		
	(d)	HDTV.	(20)	