С		Reg. No. :]
		Ouestion Pa	per	Co	de:	594	11	7					
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	1506091	$(\mathbf{D} - \mathbf{I} \mathbf{E} \mathbf{L} \mathbf{E} \mathbf{V} \mathbf{I} \mathbf{S} \mathbf{I} \mathbf{O} \mathbf{N})$		2015	DEU	EN	JINE	LEK	ING				
D	·····	(Regula	tion	2015))			М.		1		A 1-	
Dur	ation: Three nours							Ma	ximt	im:	100 г	VIark	.S
		Answer Al	LL Q	Juest	ions	`							
		PART A - (5	x I :	= 5 M	/lark	(S)						G 0	1 D
I.	The width to height rat	ion of a picture fram	ne 1s		ed as					<		CO	П-К
•	(a) aspect ratio	(b) framing ratio	(с) ре	rcep	otion	ratio	n	((d) p	1ctur	e rat	10n
2.	What is the impedance	at the antenna inpu	t teri	mina	ls of	a TV	/ rec	eive	r?			CC)2-ł
	(a) 300 ohms	(b) 150 ohms	(c) 5() ohr	ns			((d) 1	00 o	hms	
3.	CATV service provide	r can receive signal	s fro	m								CC)3-U
	(a) satellite	(b) to	wer		(c)	DVI	ζ			(d) N	VR	
4.	Scrambling of cable T	V signals requires										CO)4-I
	(a) reversal of CVS			(b) r	emo	val o	of syn	ic pu	lses	fron	n CV	S	
	(c) Quantization of video signals (d) addition of sync pulse							lses	from	n CV	S		
5.	Active Scanning lines	per frame in HDTV	is								(CO5	-R
	(a) 1125	(b) 1175	(c) 10	080				((d) 1	250		
		PART – B (5	x 3=	= 15]	Marl	cs)							
6.	Define picture resolution	on.										CO1	-R
7.	What is the main function of the blanking pulses?							CO2-R					
8.	What do you understand by satellite TV?							CO3-R					
9.	Write short notes on CCTV.							CO4-U					
10.	List some merits of high	th definition televis	ion									CO5	-U

11.	(a)	Explain the Construction and working principle of TV camera tube. Outline the performance metric.	CO1-U	(16)					
Or									
	(b)	Explain in detail about the Television camera tubes-Picture tubes	CO1-U	(16)					
12.	(a)	Using neat diagram, Explain the PAL encoding and decoding schemes used for TV signal broadcast	CO2-U	(16)					
	(b)	With Neat sketch explain about the SECAM Transmitter and Receiver	CO2-U	(16)					
13.	(a)	Recall about Direct to Home (DTH) services for TV signal broadcast.	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)	Explain the TV signal processing CATV and MATV. Or	CO4-U	(16)					
	(b)	What is pay TV? Discuss scrambling and descrambling techniques?	CO4-U	(16)					
15.	(a)	Explain the HDTV standards and its fundamental principles. Or	CO5-U	(16)					
	(b)	Analyze the working of Smart TV system.	CO5-U	(16)					