Television Engg ELTL/CBGS/ET/TVENGS. /14-12-16

* EXAM .

Q.P. Code: 588602

(3 Hours)			(3 Hours) [Total Marks	[Total Marks : 80		
		N.B. :	1.	Question no.1 is compulsory.		
			2.	Answer any three question out of remaining questions.		
			3.	Assume suitable data if required.		
1	a)	An or	dd nu	mber of lines are chosen in television system for scanning. Justify	5	
1	b)			ompatibility in TV transmission? What are the requirements to		
	U)			make the colour system fully compatible?	3	
	c)			Plasma, LED and LCD displays.	5	
	d)	195-54 CARRY		brief Direct-to-home TV (DTH).	5	
	u)	Expia	1111 1111	offer Direct-to-nome TV (DTT).	3	
2	a)	a vid	Explain with the help of suitable sketch, how is video signal developed in a vidicon camera tube? How is different from other camera tubes and what are its special applications?			
	b)	Draw	v the l	block diagram of PAL TV receiver and explain the working and of each block.	10	
3	a)			ne difference between component video and composite video?	10	
	b)	Desc	ribe r	new TV standards and compatibility adopted for HDTV. Explain stem and its advantages.	10	
4	a)		indica	mposite video signal waveform for at least three successive line ate: Extreme white level Blanking level Pedestal height	5	
				Sync. pulse level		
	b)	is ch	(R-Y) and (B-Y) colour difference signals along with luminance signal for transmission. Justify the statement. Also explain why it is to weight down the chrominance signal.		
	(c)	What		the technical advantages of using digital technology in television	5	

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- 5. a) What is the need of MAC encoding? Explain the general format of MAC 10 signals for transmitting colour TV signals.
 - b) Explain the following terms of Digital video.

10

- i. Digitization
- ii. Viewing distance and angle
- iii. Aspect ratio
- 6. a) Explain Interlace Scanning? Calculate the percentage of interlace error when the second field is delayed by 16 microseconds. Retrace time may be assumed to be negligible.
 - b) Write a note on Wide Dimension High Definition Television and its 10 standards.