Tota	l No.	of Qu	estions: 10]	SEAT No.:				
P22	59			[Total No. of Pages : 2				
			[5254]	-595				
B.E. (Electronics Engineering) (Semester - II)								
			AUDIO AND VIDEO	D ENGINEERING				
			(2012 Pattern) (Elective - III)				
Time	2:21/2	Hou	rs]	[Max. Mar	ks : 70			
Instr	ructio	ons to	the candidates:					
	1)			8 or Q. 4, Q. 5 or Q. 6, Q. 7 or Q. 8, Q. 9 or Q. 10.				
	<i>2) 3)</i>	_	Figures to the right indicate full marks. Neat diagrams must be drawn wherever necessary.					
	<i>4)</i>		of calculator is allowed.	icrever necessary.				
	5)	Assi	Assume suitable data, if necessary.					
Q1)	a)	Define following terms -		[5]				
		i)	Hue					
		ii)	Saturation					
		iii)	Kell factor					
		iv)	Brightness					
		v)	Aspect ratio					
	b)	,	y (G-Y) signal is not suitable	e for color transmission?	[5]			
	0)	** 11	OR		[2]			
0.0	`	XX 71			.,			
Q 2)	a)	What is chromaticity diagram? Explain its significance in color TV. [5						
	b)	Ske deta	_	composite video signal and expla	in it in [5]			
		~						

- Q3) a) Compare PAL, NTSC and SECAM TV System. [5]
 - b) Draw the block diagram of colour TV receiver and explain its operation.[5]

OR

- **Q4)** a) Draw a block diagram of PAL Encoder. Explain its working. [5]
 - b) Write short notes on Interlaced and progressive scanning. [5]

P.T.O.

Q5) a)		Discuss in brief IPTV and Wi-Fi TV.					
1	b)	Wri	te short note on	[8]			
		i)	Camcorders				
		ii)	Webcam				
OR							
Q6) a	a)	Disc	cuss in detail Web TV system.	[8]			
1	b)	Exp	lain the following:	[8]			
		i)	3D TV				
		ii)	Perspective of TV white spaces				
Q7) a	a)	State the necessity of reverberation, typical reverberation periods & factors on which reverberation time depends. [10]					
1	b)	Wri	te a note on:	[8]			
		i)	PA system for Auditorium				
		ii)	Special types of Microphone				
OR							
Q8) a)		Discuss acoustic chamber in detail. [10]					
1	b)	Discuss with block diagram, working of cordless microphone PA system. [8]					
Q9) a)		Compare CD, DVD and Blue- ray DVD. Draw the block diagram of CD recording. [8]					
1	b)	Exp	lain in detail Dolby sound system and also state its advantages.	[8]			
OR							
Q10)a	a)	Des	cribe ITU-T (G) compression standards.	[8]			
1	b) Draw and explain the block diagram of MP3 player.			[8]			

