		o. of Questions : 10] SEAT No. :			
P33	47	7 [Total No. of Pages : 2 [5670] 616			
		B.E. (Electronics & Telecommunication)			
AUDIO VIDEO ENGINEERING					
·					
		Pattern) (Semester)-II) (Elective - III (c)) (404191E) (End Semester)			
		[Max. Marks: 70			
	icu 1)	ons to the candidates:  Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8, Q9 or Q10.			
	2)	Neat diagrams must be drawn wherever necessary.			
	3)	Figures to the right side indicate full marks			
4	<i>4</i> )	Use of calculator is allowed.			
	5)	Assume suitable data, if necessary.			
Q1)	a)	Use of calculator is allowed.  Assume suitable data, if necessary.  Define:  i) Horizontal and Vertical Resolution  [5]			
QI	a)	Demis.			
		Progressive and Interlace Scanning			
	b)	Compare PAL, NTSC and SECAM color TV Systems. [5]			
		QR O			
<i>Q2</i> )	a)	Justify why the video bandwidth in CCIR-B standard is 5 MHz. [5]			
2 /	b)	Explain phase error cancellation in PAL television system. [5]			
	0)	Explain phase error cancernation in 17 th television system.			
0.0)	`				
Q3)	a)	With a block diagram explain the composite encoded DTV transmitter. [5]			
	b)	Explain the construction and operating principle of LCD display. [5]			
		OR			
<b>Q</b> 4)	a)	Compare analog TV, DTV and HDTV. [5]			
	b)	With suitable diagram explain CCTV system [5]			
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<i>Q5</i> )	a)	What is IPTV? Explain characteristics and advantages of IPTV. [8]			
	b)	Explain Wi-Fi TV with relevant block diagram in detail [8]			
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		OR OR			

<b>Q6</b> )	a)	Compare IPTV with internet TV.	[8]
	b)	Write a short note on Digital video recorders.	[8]
<i>Q7</i> )	a)	Draw and explain the block diagram of CD recording and player.	[10]
	b)	Compare Blue ray disc and DVD. Explain their working.	[8]
		OR	
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<b>Q8</b> )	a)	Write a short note on Variable area method of optical recording.	[10]
	b)	Draw and explain block diagram of MP3 player system	[8]
			. ,
		6. <sup>1</sup>	
<b>Q9</b> )	a)	Explain the concept of reverberation and echo? Explain the import	
		of reverberation.	[8]
	b) \	State the various types of microphones. Explain moving coil microp	
		with construction details, working, specifications and applications.	[8]
		OR O	
Q10	<b>)</b> a)	What are the requirement of good auditorium? Give the salient feature	re of
		acoustic design for an auditorium.	[8]
	b)	Discuss the working principle of satellite radio reception with neces	ssarv
	,	block diagram.	[8]
		9.7	
		block diagram.	
		$\mathcal{O}_{\mathbf{y}}^{\mathbf{y}}$	
		acoustic design for an auditorium.  Discuss the working principle of satellite radio reception with necession block diagram.	

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