Total No	. of Questions : 10]	SE SE	AT No. :
P9320	[6181]-	554	[Total No. of Pages : 2
	B.E. (Electronics & Tel	Y	ation)
	AUDIO VIDEO EN		
(2015	Pattern) (Semester - II) (Elec	tive - III) (40	14191 E) (Theory)
<i>Time</i> : 2 ¹ / ₂	- 1		[Max. Marks : 70
Instruction 1)	ons to the candidates: Answer questions Q.1 or Q.2, Q.3 or Q	4 0.5 or 0.6 0	7 or 0.8 0.9 or 0.10.
2)	Neat diagrans must be drawn wherever	r necessary.	, 0, 2,0, 2,2 0, 2,10.
3)	Figures to the right indicate full marks	5.	
<i>4</i>) <i>5</i>)	Use of calculator is allowed. Assume suitable data if necessary.		200
			3/3
	6.		
Q1) a)	Explain the PAL encoder using bl	ock diagram.	[5]
b)	Draw a neat sketch of composite	video signal inc	licating the numberical
	values for different timings of var	ious pulses used	
	0		[5]
	QR		
Q2) a)	Explain the terms.		[5]
2 2) u)	6	Y	[2]
	i) Horizontal and vertical resolu	ution.	C
	ii) Kell factor.		:.c: V
	iii) Interlaced scanning.		
• •	86		
b)	What is significance of weighted significance	gnals in televisio	
	with for FAL & \$15C.		[5]
Q3) a)	Explain the various Digital TV sig	gnals and param	eters. [5]
b)	What is MAC signal? What are v	arious types of	MAC? Draw D2 MAC
	signal		[5]
	OR	0, 39	
04) a)		dianlay	o [5]
Q4) a)	Compare LED, LCD and plasma	display devices	s. [5]
b)	In brief discuss the MPEG standa	ard for compres	ssion of signal. [5]
		8.	P.T.O.

<i>Q5</i>)	a)	Draw a neat block diagram of HDTV transmitter and Explain function of each block. [8]			
	b)	Write a short note on digital satellite TV.	[8]		
		OR			
Q6)	a)	Compare IPTV and Internet TV.	[8]		
	b)	With suitable block diagram Explain CCTV system in detail. [[8]		
Q7)	a)	Write a short note on [1	.0]		
		i) Video on demand.			
		ii) Conditional Access system (CAS).			
	b)	Draw and explain Direct to Home TV (DTH). List the advantages DTH.	of [8]		
		OR OR			
<i>Q8</i>)	a) \	Explain the basic principle of optical recording and reproduction wis suitable block diagram. [1	ith .0]		
	b)	Explain Wi-Fi TV with block diagram in detail. [[8]		
Q9)	a)	Explain the principle of DVR. How it is differing than VCR. [8]			
	b)	Compare CD, DVD and Blue ray DVD. Draw the block diagram of CD recording and Explain. [8]			
	OR				
Sp. T					
Q10)a)	Define reverberation time? Explain the importance of reverberation. Whare the factors on which reverberation time depends:	nat [8]		
	b)	Enlist the basic requirements of PA system. Draw block diagram of typical cordless PA system. Explain it in detail. [8]			
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		6.7			
cordless PA system. Explain it in detail. [8]					
[618	1]-5	2			