B.E. (Electronics & Telecommunication / Electronics & Communication Engineering) Seventh Semester (C.B.S.)

Television & Video Engineering

TKN/KS/16/7539

	ages :	2 ee Hours	$5 \times 0 9 0 3 \times Max. N$	Marks : 80
	Notes	5: 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11.	All questions carry marks as indicated. Solve Question 1 OR Questions No.2. Solve Question 3 OR Questions No.4. Solve Question 5 OR Questions No.6. Solve Question 7 OR Questions No.8. Solve Question 9 OR Questions No.10. Solve Question 11 OR Questions No.12 Due credit will be given to neatness and adequate dimensions. Assume suitable data whenever necessary. Illustrate your answers whenever necessary with the help of neat sketches. Use of non programmable calculator is permitted.	
1.	a)	-	the choice of a rectangular frame with width to height ratio of 4/3 for T.V ission and reception.	3
	b)		VSB transmission and reception that includes necessary correction on account repancy caused by VSB transmission.	t of 7
	c)	Draw gi	iving complete details composite video signal.	4
2.	a)	Explain	how the 'Y' and colour difference signal are developed from camera output.	7
	b)	Explain	chromaticity diagram? Give its advantages.	7
3.	a)	Explain	PAL Encodes and Decodes.	8
	b)	Give the	e block diagram to explain the working of SECAM encoder.	5
			OR	
4.	a)	Write sl	hort note on Remote control.	6
	b)	Explain	Different T.V Transmitter Antennas.	7
5.	a)	Give the	e advantages of Digital video broadcasting.	5
	b)	Explain	different sampling structure use in Digital television.	8
			OR	

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6.	a)	What was the need of MAC encoding? Explain the general format of MAC signal for transmitting colour T.V Signal.				
	b)	Explain basic principles of Digital video compression Techniques.	7			
7.	a)	Explain with block diagram HDTV transmitter and receiver.	10			
	b)	Define HDTV. What are different standards used in HDTV.	4			
		OR				
8.		Write short note on any four.	14			
		i) CCTV				
		ii) CATV				
		iii) DTH				
		iv) Set top Box with recording facility.				
		v) 3DT system.				
9.	a)	Write short notes on IP TV	6			
	b)	What are the different objective of mobile TV.				
		OR				
10.		Write short note on any two .	13			
		i) Digital video Recorders.				
		ii) Video projectors.				
		iii) Video Intercom system.				
11.	a)	Explain in detail camcorder.	7			
	b)	Write short note on Digicams.	6			
	OR					
12.	a)	Explain in detail principles of operation & liquid crystal cell.	7			
	b)	Explain in detail with block diagram DVD playback system.	6			
