Q.P. Code :11990

	[Time: 3 Hours]	Marks:80
	Please check whether you have got the right question paper. N.B: 1. Questions number 1 is compulsory. 2. Solve any three questions from the remaining 3. Illustrate your answer with neat sketches	
Q.1	A Write characteristics of D2 MAC. B How is charge image created in image orthicon? C Briefly explain NTSC coder? D What is the use of front porch and back porch in the composite video signal? E What is the need of MUSE system?	4 4 4 4 4
Q.2	A Why are color difference signals used in colors transmission? Why (G-Y) is not transmitted in color TV. Elaborate? B Explain working of vidicon camera tube?	10 10
Q.3	A A draw and explain working principle of LCD display. Compare and contrast LCD and LED televisions? B Explain the concept of frequency interleaving. What is the need of interlaced scanning?	10 10
Q.4	A Discuss composite video signal with respect to blanking level, pedestal height, active period and black a white level? B What is the need of multiplexed analog component? Explain MAC signal?	and 10
	A In relation to digital TV discuss? 1) Pixel array 2) Viewing angle and distance 3) Digitization 4) Frame rate and refresh rate B What is need of chroma sub sampling? Explain types of chroma sub sampling?	10
Q.6		
,5	1 Direct to home television	7
9	2 Plasma television	7
	3 Compatibility and reverse compatibility?	6