## Q.P. Code: 587101

		(3 Hours) [ Total Marks : 100	)
N.	В.:	<ul> <li>Question No.1 is compulsory.</li> <li>Solve any four from remaining six questions.</li> <li>Figures to the right indicate full marks</li> </ul>	5,6
1.	(a) (b) (c) (d)	Explain chromaticity diagram with a neat sketch.  Discuss in brief about RTCP.	5 5 5 5
2.	(a) (b)	Explain the operation of sync separator with a neat diagram.  Explain the working of cable television with the help of a neat diagram.	
3.	(a) (b)	What are the essential requirements to be satisfied to make a colour 10 TV fully compatible with monochrome system.  Describe the working of digital TV system.	
4.	(a) (b)	Draw and explain vidicon camera tube. What do you understand by 10 dark current in vidicon?  Draw composite video signals for two lines and explain the various 10 components in details.	
5.	(a) (b)	Explain the difference between PAL and NTSC colour TV standards. 10 Discuss in brief about the vision test charts used in troubleshooting. 10	
6.	(a) (b)	Explain frequency interleaving process in detail.  10  11  12  13  14  16  16  16  16  17  18  18  19  19  19  19  10  10  10  10  10  10	
7.	(a) (b)	What is the basic principle of TV camera tubes. Write a short note on 10 solid-state image scanners.  Explain the working of horizontal deflection system and the function of EHT. 10	
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