

TELEVISION ENGINEERING

Q.P. Code : 588601

(3 Hours)

[Total Marks : 80

- N.B. :**
1. Question no.1 is compulsory.
 2. Answer any three question out of remaining questions.
 3. Assume suitable data if required.

1. (a) What are the advantages of digitization in television systems? 5
(b) Draw & illustrate the different levels of CVS and define them. 5
(c) Define aspect ratio & state standardized value of aspect ratio? Give reason for the choice. 5
(d) Define characteristics of colour: Luminance, Hue and Saturation. 5
 2. (a) Draw & explain image orthicon camera tube in detail with advantages & disadvantages. 10
(b) Discuss features of the PAL system. Explain delay-line PAL method with neat diagram. 10
 3. (a) Explain Chroma sub-sampling and its types in detail. 10
(b) Draw & explain block diagram of NTSC colour receiver. 10
 4. (a) Explain D2-MAC packet format/signal and state characteristics of D2-MAC. 10
(b) Write a note on wide high definition television and its standards. 10
 5. (a) Explain in brief direct to home television. 10
(b) Explain difference between component digital video & composite video. 10
 6. Write short note on (any four) : 20
 - (a) MUSE system
 - (b) Merits and Demerits of LED display
 - (c) VSB correction.
 - (d) Frequency Interleaving
 - (e) Displays: Plasma, LCD & LED.
-