

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.

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