

[Time: 3 Hours]

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 five questions
3. Draw neat sketches wherever required.

- Q.1 A Compare plasma, LED and LCD displays? 5
 B In TV why AM is preferred over FM for picture modulation? 5
 C What are the advantages of using digital technologies for television system? 5
 D Explain compatibility considerations in TV system? 5
- Q.2 A Explain interlaced scanning with a neat diagram and also explain how it is better than sequential scanning? 10
 B Explain working of image orthicon camera tube with a neat sketch. Also state its draw backs? 10
- Q.3 A Explain in detail Direct to Home TV (DTH)? 10
 B Explain the need of chroma sub sampling .Explain various types. 10
- Q.4 A Discuss the following terms W.R.T. color transmission? 10
 i) Luminance, chrominance and saturation.
 ii) Additive and subtractive mixing.
 B Explain the following terms in relation to digital TV. 10
 i) Aspect ratio, ii) Viewing distance and angle iii) Digitization.
- Q.5 A Only (R-Y) and (B-Y) color difference signal along with luminance signal is chosen for color transmission and (G-Y) is not transmitted .justify? 10
 B Compare NTSC, PAL and SECAM TV standards? 10
- Q.6 Write short notes on 20
 1 High definitions television (HDTV)
 2 Chromaticity diagram
 3 MUSE system
 4 Color killer circuit