

**Q.P. Code : 6405**

( 3 Hours)

[ Total Marks :80

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

1. (a) Give CCIR-B slandered. 20  
(b) Explain electron multiplier section in brief.  
(c) Explain what is colour killer circuit?  
(d) What is the need of MUSE system?
2. (a) What is the need of Equalization pulses? Explain pre-and post-Equalization pulses in brief. 10  
(b) Draw and explain the working of Vidicon in brief. 10
3. (a) Explain the features of PAL system. Explain PAL coder in details. 10  
(b) Explain in details -Raster scanning. What are the advantages of this scanning system? 10
4. (a) What is the need of Chroma Sub-sampling? Explain the types in details. 10  
(b) Explain the packet format for Sound / data signal in D2-MAC. 10
5. (a) Why Direct to Home is preferred over terrestrial transmission? Explain in brief DTH system. 10  
(b) Explain HDTV compatibility. Give the HDTV slandered for 1250 line and 1125 line. 10
6. Write short note on (any four) 20
  - (a) Active and passive matrix of LCD.
  - (b) Synchronization in MAC.
  - (c) Vestigial side band transmission in TV.
  - (d) Line rate and Aggregate data rate.
  - (e) Merits and Demerits of LED display.