

QP Code : **15165**

(3 Hours)

[Total Marks : 100]

- N.B. :** (1) Question No. 1 is **compulsory**.
 (2) Answer any **four** out of remaining **six** questions.
 (3) Draw the **neat diagrams** wherever **necessary**.

1. Answer the followin :— 20
 - (a) In T.V. why AM is preferred over FM for picture Modulation.
 - (b) In color T.V. Transmission What is the purpose of color sub carrier ?
 - (c) What is LNBC ? Explain with the help of Block Diagram.
 - (d) Explain in brief RTCP streaming video protocol.
2. (a) What is the Drawback of Sequential Scanning ? How it is overcome in Interlace Scanning ? Explain Interlace Scanning in Detail. 20
 (b) Explain the color T.V. Camera System. What is the purpose of Dichromic lense in it ?
3. (a) Explain the working of Vidicon Camera tube. What do you mean by dark current ? 20
 (b) What do you mean by color burst Signal ? Explain how it is generated and transmitted.
4. (a) Explain the working of T.V. pattern generator used for testing of T.V. 20
 (b) With the help of Block Diagram explain B/W T.V. Receiver.
5. (a) Compare NTSC, PAL and SECAM TV Standards. 20
 (b) Draw and explain color killer circuit used in color T.V. Receiver.
6. (a) With the help of Block Diagram explain in brief working of Satellite T.V. Receiver. 20
 (b) Draw and explain PIL Picture Tube and Compare its performance with Delta Gun.
7. Write short notes on (any two) :— 20
 - (a) Deguassing used in Picture Tube.
 - (b) EIA pattern.
 - (c) MATV and CATV.