

Register No.:

329

April 2023

Time - Three hours
(Maximum Marks: 100)

- N.B.***
1. Answer all questions under Part-A. Each question carries 3 marks.
 2. Answer all the questions either (A) or (B) in Part-B. Each question carries 14 marks.

PART - A

1. Define Hue, and Saturation.
2. Write about scanning.
3. Write down the types of camera tubes.
4. Define degaussing.
5. What are the demerits of PAL system?
6. Write notes on need for AGC.
7. What is large screen display?
8. Write down the types of communication cables.
9. Define CCTV.
10. Mention the various types of 3D picture display techniques.

PART - B

11. (a) (i) Draw the block diagram of Monochrome transmitter and explain the operation.(7)
(ii) Explain positive and negative modulation.(7)
(Or)
(b) (i) Explain Interlaced scanning with diagram.(10)
(ii) What is Sequential scanning?(4)

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12. (a) (i) Explain the operation of Trinitron Picture tube.(7)
(ii) Explain the target plate of Plumbicon camera tube.(7)
(Or)
- (b) (i) Draw the structural configuration of Vidicon camera tube and mark the parts.(4)
(ii) List the advantages of CCD.(3)
(iii) Compare Vidicon and CCD camera tubes.(7)
13. (a) (i) What is the need for AFC? Also explain about horizontal AFC.(7)
(ii) Explain the working of CIN diplexer.(7)
(Or)
- (b) (i) Draw the block diagram of PAL color coder and explain.(7)
(ii) State the features of PAL system.(7)
14. (a) Explain the working and the merits of LED TV.
(Or)
- (b) Draw the block diagram of DTH and explain its working and its applications.
15. (a) Explain about digital color TV receiver.
(Or)
- (b) Explain the various types of display techniques used in 3D TV.