

TVE - sem-VI - Old - EXTC
TVE

8/12/15

QP Code : 2025

(3 Hours)

[Total Marks : 100

- N.B. : (1) All questions are compulsory
(2) Figures to the right indicate full marks.
(3) Illustrations, in-depth answers and diagrams will be appreciated.
(4) Mixing of sub-questions is not allowed.

1. (a) Explain why (G-Y) is not transmitted in colour Television system. 20
(b) Compare NTSC and PAL System.
(c) Why aspect ratio is 4:3 chosen for T.V.
(d) Explain how monochrome and colour TV are made compatible.
2. (a) Draw block diagram of monochrome receiver and explain. 20
(b) Draw and Explain chromaticity diagram.
3. (a) (i) Draw composite video signal and label different parts of the same. 20
(ii) Explain why vertical synchronising pulse is selected.
(b) Draw and explain different sections of Image Orthicon camera tube.
4. (a) Draw PAL coder diagram and explain. 20
(b) Explain how phase error get eliminatural in PAL System.
5. (a) Draw deltra gun picture tube and explain working. 20
(b) What is AGC ? Explain to which sections of receiver AGC is applied.
6. (a) Explain interlaced scanning with neat diagrams. 20
(b) Why negative modulation is used in TV system.
7. Write short notes on any two. 20
(i) CATV
(ii) CCIR standards for monochrome TV system.
(iii) Significance of colour Killer Circuit in colour receiver circuit.
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QP-Con. 10307-15.