

Code: 9A04705



B.Tech IV Year I Semester (R09) Supplementary Examinations June 2017 T.V. ENGINEERING

(Electronics & Communication Engineering)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions All questions carry equal marks

- 1 (a) Explain the differences between interlaced scanning and sequential scanning.
 - (b) Explain in detail about PAL system.
- 2 (a) Why negative modulation technique is used in TV system?
 - (b) What is ghost image in TV? Differentiate leading and trailing ghost images.
- 3 (a) Draw the constructional details and explain the operation of Silicon Diode Array Vidicon.
 - (b) Explain the block diagram of monochrome TV receiver.
- 4 (a) Explain in detail about beam deflection.(b) Describe the features & principles of NTSC colour system.
- 5 (a) Draw and explain PAL-D colour receiver.
 - (b) What is raster circuit? Explain.
- 6 (a) Explain about vision IF subsystem of black and white receivers.
 - (b) List out the advantages of infrared remote control and discuss the technique.
- 7 (a) Discuss delay line method of separating U and V signals in PAL receiver.
 - (b) Describe working of a sub-carrier reference oscillator with a neat circuit diagram.
- 8 (a) Distinguish between digital TV, digital satellite TV, direct to home satellite TV.
 - (b) Write four special features of digital TV that cannot be easily incorporated into analog TV.