

Code No: **R4204A**

R10

Set No. 1

IV B.Tech II Semester Supplementary Examinations, April/May-2017

TELEVISION ENGINEERING

(Electronics and Communication Engineering)

Time : 3 hours**Max. Marks: 75**

Answer any Five Questions

All Questions carry equal marks

- 1 a) Explain the Composite Video Signal with the help of a neat sketch. [8]
b) Describe standard scanning sequence used in TV? [7]
- 2 a) What is VSB transmission & Why is it used for transmission of TV picture signals? [7]
b) Explain Turnstile antenna & dipole antenna systems for transmission of TV signal. [8]
- 3 a) Differentiate the photoconduction and photoemission processes. [5]
b) Draw a sketch of any one camera tube based on photoconduction property and explain in detail. [10]
- 4 a) Describe the features of PAL colour TV system. [7]
b) Give the comparison of different types of picture tubes. [8]
- 5 a) What are the considerations for choice of the differentiating & integrating circuit used for separating H & V pulses? Draw circuit & waveform. [10]
b) State the color processing function of typical chroma decoder. [5]
- 6 a) Describe the advantages of Infrared remote control & discuss the technique. [8]
b) Describe the factors that decide the choice of IF in a TV system. [7]
- 7 a) Draw the block diagram of PAL encoder & decoder and explain its functioning. Compare its performances with NTSC system. [10]
b) Why a burst of subcarrier is sent along with the sync & blanking pulses. [5]
- 8 a) Why is trapezoidal voltage waveform necessary to drive the vertical deflection coil? [7]
b) Describe the features of Direct to Home Satellite TV. [8]