

Code No: **R4204A****R10****Set No. 1****IV B.Tech II Semester Supplementary Examinations, April/May - 2019****TV ENGINEERING****(Electronics and Communication Engineering)****Time: 3 hours****Max. Marks: 75****Answer any FIVE Questions
All Questions carry equal marks**

- 1 a) How the flicker is reduced by interlaced scanning? Explain. [8]
b) Explain about encoding of colour difference signals in detail. [7]
- 2 a) Explain about VSB transmission in TV transmission systems. [7]
b) What are the differences between positive and negative modulation techniques? Which of these modulation techniques is used in TV systems and Why? [8]
- 3 a) What is the significance of CCD Image Sensors? Explain. [7]
b) What are the different Camera tube types and explain one in detail. [8]
- 4 a) Draw and explain about Electrostatic focusing system in televisions. [7]
b) Briefly explain about NTSC colour system. [8]
- 5 a) Draw and explain in detail about video amplifier. [8]
b) Draw and explain about raster circuits. [7]
- 6 a) Explain about vision IF subsystem of Black and White receivers. [8]
b) Explain about AGC. [7]
- 7 a) Explain about Burst phase discriminator. [7]
b) Explain about ACC amplifier. [8]
- 8 a) Explain about Receiver Antennas in detail. [7]
b) Explain about Digital Terrestrial TV. [8]