

- b. Explain Additive Colour Mixing and Grassman's Law. (6)
- Q.6** a. Explain the terms positive modulation and negative modulation and explain the merits and demerits of negative modulation over positive modulation. (10)
- b. Explain Turnstile array and Dipole Panel antennas. (6)
- Q.7** a. Explain the block diagram of SECAM coder. (8)
- b. Explain the block diagram of NTSC decoder. (8)
- Q.8** a. Explain, with a block diagram, the functioning of sound section of a TV receiver. (8)
- b. Explain how the U and V signals are separated in TV Receiver with a block diagram. (8)
- Q.9** Write short note on the following:
(i) PLL control
(ii) Sweep Generator
(iii) AFC
(iv) Booster Amplifier (4×4)