

Code: R7410406

B.Tech IV Year I Semester (R07) Supplementary Examinations December 2015

TELEVISION ENGINEERING

(Electronics & Communication Engineering)

(For 2008 regular admitted batch only)

Time: 3 hours

Max. Marks: 80

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Explain the perception of brightness and colours.
(b) Write short notes on horizontal and vertical sync.
- 2 (a) Explain the process of positive and negative modulation.
(b) Write short notes on TV broadcast channels.
- 3 (a) Draw a neat figure and explain CCD image sensors.
(b) Give the role of interference in TV signal transmission.
- 4 (a) Explain the electrostatic focusing in picture tube.
(b) List the specifications of American 525 line B & W TV system.
- 5 (a) Draw a neat block diagram and explain RF tuner.
(b) Explain the process of separation of U and V colour phasors.
- 6 (a) Explain AGC with a neat diagram.
(b) Explain how VHF and UHF tuners operation is carried out.
- 7 (a) Give the performance of indent and colour killer circuits and also list the applications of same.
(b) Write short notes on burst phase discriminator.
- 8 Write explanatory notes on:
(a) Direct to home satellite TV.
(b) Deflection oscillators.
