

Code: R7410406



IV B.Tech I Semester (R07) Supplementary Examinations, May 2012 TELEVISION ENGINEERING (Electronics & Communication Engineering)

Time: 3 hours

Max Marks: 80

## Answer any FIVE questions All questions carry equal marks

- 1. (a) Define
  - (i) Persistence of vision.
  - (ii) Aspect ratio.
  - (iii) Kell factor.
  - (iv) Resolution.
  - (b) Write in brief about the composite video signal.
- 2. With a neat block diagram explain the working of TV transmitter in detail.
- 3. Explain about the following:
  - (a) Light transfer characteristics.
  - (b) Sensitivity.
  - (c) Spectral response of monochrome TV.
  - (d) Resolving power.
- 4. (a) Describe the characteristics and specifications of picture tube in detail.
  - (b) What are the standards of wand compare it with American TV standards.
- 5. (a) Explain how composite video signal is detected. How the polarity of video output signal is decided
  - (b) Discuss in details sub system in PAL-D colour receiver.
- 6. (a) Discuss about video and inter carrier sand signal detection.
  - (b) Explain the operation of tuner.
- 7. Explain briefly about the operation of following circuits
  - (a) Gated burst amplifier.
  - (b) Color killer circuit.
- 8. Write short notes on the following:
  - (a) Sync separation.
  - (b) Digital satellite TV.

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