

Code :R7410406

R7**IV B.Tech I Semester(R07) Supplementary Examinations, May/June 2011
TELEVISION ENGINEERING****(Electronics & Communication Engineering)****Time: 3 hours****Max Marks: 80****Answer any FIVE questions
All questions carry equal marks**

1. Draw the neat sketch of composite video signal for two alternate black and white lines and explain.
2. (a) Why do thin vertical lines produce higher video signal frequencies than wide vertical bars.
(b) Explain about the CCR-B standard bandwidth requirement per channel.
3. (a) With neat sketch explain the working of camera tube (CD image sensor). What are its merits and demerits.
(b) Write short notes on diplexers.
4. Write short notes on the following:
 - (a) Gray scale tracking.
 - (b) Automatic degaussing.
5. (a) Draw the block diagram of PAL-D decoder and explain the functions performed by each block.
(b) Write short notes on RF Tuners.
6. Write in detail about AGC with relevant circuit diagrams.
7. (a) Discuss in detail about chroma signal amplifiers.
(b) Write short notes on colour killer circuit.
8. (a) Explain how integrating and differentiating circuits are used to separate vertical and horizontal sync pulses. Draw the circuit and explain its operation.
(b) Write short notes on colour signal mixing.
