

R09
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Code: 9A04705

B.Tech IV Year I Semester (R09) Supplementary Examinations, May 2013

**T.V.ENGINEERING**

(Electronics and Communication Engineering)

Time: 3 hours

Max Marks: 70

Answer any FIVE questions  
All questions carry equal marks

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1. (a) Define:  
(i) Interlaced scanning.      (ii) Aspect ratio.  
(iii) Luminance.              (iv) Huce.  
(v) Saturation.                (vi) Sync signal.  
(b) Explain about PAL – encoder with neat sketch.
2. (a) What is channel bond width? Explain in detail.  
(b) Explain about composite video signal with neat sketch.
3. (a) Explain the principle of operation of image orthicon with neat block diagram.  
(b) Discuss about any one type of color camera.
4. With neat block diagram explain about NTSC color TV system.
5. (a) Explain about RF tuner used in TV transmission.  
(b) Explain how U & V signals are separated.
6. (a) What is AGC? Why it required explain.  
(b) Explain how sound signal is demodulated in TV receiver.
7. (a) Explain how secondary colors can be produced from primary colors. Explain with relevant equations.  
(b) Explain about colors signal amplifier.
8. Explain about: (i) CATV    (ii) CCTV    (iii) DTH

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