

ANNA UNIVERSITY OF TECHNOLOGY, COIMBATORE
B.E. / B.TECH. DEGREE EXAMINATIONS : NOV / DEC 2010
REGULATIONS : 2007
SEVENTH SEMESTER : ECE
070290087 - TELEVISION AND VIDEO ENGINEERING

TIME: 3 Hours

Max.Marks: 100

PART – A

(20 x 2 = 40 MARKS)

ANSWER ALL QUESTIONS

1. Define Aspect ratio
2. List out the camera pickup characteristics
3. State the advantages of CCD Sensors
4. What is meant by dark current?
5. What kind of modulation is used for video signal? Why?
6. What are the functions of pulse processing?
7. List the four main features of PAL color TV System.
8. What are the equipments required to convert the film images into video signals?
9. Define EIRP.
10. State the advantages of IF Modulation
11. List the Interference problems in TV reception
12. Justify the use of Booster amplifiers
13. What is a color killer unit?
14. What is EHT? Why is it required?
15. How is pincushion distortion adjusted?
16. List the various types of traps.
17. What are the applications of HDTV?
18. What are the merits of digital TV receivers?

- 19. What is the teletext?
- 20. Define Camcorders and mention its use.

PART – B

(5 x 12 = 60 MARKS)

ANSWER ANY FIVE QUESTIONS

- 21. Explain the Working Procedure of Plumbicon
- 22. a) Write brief notes on Chromaticity diagram (8)
b) Explain briefly the Interlaced scanning (4)
- 23. a) Explain about NTSC Encoder system (8)
b) Distinguish between the positive and negative modulation (4)
- 24. With necessary diagram explain the Visual exciter.
- 25. a) Briefly explain about yagi aerials (8)
b) Write short notes on Shadow zones (4)
- 26. Explain the working principle of an electron gun with necessary diagrams.
- 27. a) Briefly explain the FM discriminators (6)
b) Write short notes on Plasma Displays (6)
- 28. Write short notes on
 - a) Video Disk System (6)
 - b) HDTV (6)

*******THE END*******