



M 26157

Reg. No. :

Name :

VII Semester B.Tech. Degree (Reg./Sup./Imp. – Including Part Time)

Examination, November 2014

(2007 Admn. Onwards)

PT 2K6/2K6 EC 704 : TELEVISION ENGINEERING

Time : 3 Hours

Max. Marks : 100

PART – A

Answer **all** questions :

1. Explain about horizontal resolution and vertical resolution in 625-B TV system.
2. Write the advantages of negative modulation.
3. Draw the block diagram of a colour TV camera tube and explain the working.
4. What is the need of dc restorer circuit in TV transmitter ? Explain.
5. What is colour burst ? What is the need ? Explain.
6. Write the characteristics of PAL system.
7. Explain about HDTV.
8. What is DPCM ? Explain. **(8×5=40)**

PART – B

9. What is composite video signal ? Also explain how the horizontal retrace period and vertical retrace period are effectively utilized in 625-B system and the need of different pulses. **15**

OR

10. a) Draw the basic block diagram of a monochrome TV receiver and explain it. **7**
b) What is interlaced scanning ? Explain also write the advantages. **8**

P.T.O.



11. a) Draw a PIL tube and explain its different characteristics. **6**
b) Explain about : **9**
 i) Astigmatism
 ii) Comma effect
 iii) Degaussing.
 OR
12. a) With a neat diagram explain the working of plumbicon camera tube. **9**
b) Write the disadvantages of delta gun picture tube. **6**
13. a) Draw the block diagram of a PAL decoder and explain the different blocks. **9**
b) Write the demerits of NTSC system. **6**
 OR
14. a) Why the colour sub carrier frequency is odd multiple of half the line frequency in NTSC system ? Explain. **6**
b) Draw and explain the working of a SECAM coder. **9**
15. What is the need of video compression ? Explain the different types. **15**
 OR
16. Explain the following : **15**
 i) Digital TV
 ii) DVB
 iii) T-Satellite.
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