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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