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Question Paper Code : 21334

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2013.

Seventh Semester

Electronics and Communication Engineering

EC 2034/EC 711/EC 1007 — TELEVISION AND VIDEO ENGINEERING

(Regulation 2008)

(Common to PTEC 2034 – Television and Video Engineering for B.E. (Part-Time)
Sixth Semester – Electronics and Communication Engineering – Regulation 2009)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define picture resolution.
2. Justify the choice of negative modulation for TV transmission.
3. List the functions of TV tuner.
4. What are the advantages of AGC?
5. Define luminance and hue.
6. Draw the chromaticity diagram.
7. List the features of PAL color system.
8. Draw the circuit diagram of ACC amplifier.
9. List the merits of Digital TV Receiver.
10. What do you mean by EDTV?

PART B — (5 × 16 = 80 marks)

11. (a) (i) What is Interlaced scanning? Explain in detail. (10)
(ii) Draw and explain the construction and working of Vidicon camera tube. (6)

Or

- (b) Sketch a neat figure of Monochrome picture tube and explain beam deflection, picture tube screen, picture tube control. (16)

12. (a) Write short notes on
(i) DC reinsertion (16)
(ii) EHT generation

Or

- (b) With the help of a neat diagram, discuss the monochrome TV receiver in detail. (16)

13. (a) (i) Draw the Delta-Gun color picture tube and explain its operation. What are the drawbacks of Delta-Gun tube? (10)
(ii) With the help of a diagram, explain automatic degaussing circuit. (6)

Or

- (b) (i) Describe three color theory with suitable diagram. (8)
(ii) Write short notes on pincushion correction techniques. (8)

14. (a) Explain the concept of SECAM coder and decoder. (16)

Or

- (b) (i) Draw and explain the function of color killer and ident circuits. (8)
(ii) Explain Burst phase discriminator with a neat diagram. (8)

15. (a) Give detailed notes on Digital TV transmission and reception. (16)

Or

- (b) (i) With neat diagram, explain Tele text broadcast receiver. (8)
(ii) Draw and explain the concept of cable signal distribution. (8)