NAME_____ ROLL NO_____

2008 ANNA UNIVERSITY

B.E/B.TECH DEGREE EXAMINATION

TV AND VIDEO ENGINEERING

(ELECTRONICS AND COMMUNICATION ENGINEERING)

JUNE-2008

TIME-3HOUR
MARKS-100

ANSWER ALL QUESTIONS

PART - A [10X2=20]

1. Define vertical scanning

2.Define Total channel bandwidth using vestigial sideband.

3.Differentiate Co-channel interference and adjacent channel interference.

4.What is EHT and why is it required?

5.Define compatibility and Reverse compatibility.

6.illustrate the formation of the chroma signal for a colour bar pattern after the color difference signals have been scaled down

7.sate the limitations of NTSC systems?

8.What is the function of the color kiler circuit?

9.What is tele text?

10.Name the various digital equipments require in tv studio?

PART - B [5X16=80]

11.a(i)With suitable diagrams explain in detail the interlaced scanning procedure

(ii)Draw the constructional detail and explain the operation of vidicon camera tube

OR

b. (i) With suitable diagram explain in detrail about composite video signal

(ii)Explain the sound signal transmission.

12.a Draw the block diagram of a monochrometelevision reciever and explain each block in detail

OR

b Explain the following in detail

(i) DC Re-insertion

(II) Reciever antennas

13.a. With necessary diagrams explain the delta-gun colour picture tube. Describe how purity and convergence are achieved in it

OR

b.Explain the following

(i) Pincushion correction techniques

(ii) Color signal transmission

14.a.(i) Draw the simplified block diagram in the NTSC colour reciever and explain each block

(ii) Explain the sequence of modulation in the PAL colour system and illustrate the colour burst swing inm PAL system

OR

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b.Describe the following:

(i) seperation of U and V signals

(ii) ident and colour killer circuits

(iii) merits and demerits of SECAM system

15.a Describe the following in detail with suitable diagram

(i) Cable TV

(ii) VCR

OR

b. Write notes on

(i) 3D TV

(ii) EDTV