

Q.20 Explain the following terms:

- a) Luminance
- b) Saturation

Q.21 Explain the following terms:

- a) Hue
- b) EHT
- c) Tint

Q.22 Draw the block diagram of PAL TV receiver.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 Explain the following terms:

- a) CCTV
- b) DTH

Q.24 Explain the following terms in detail:

- a) colour triangle
- b) mixing of colours

Q.25 Write any eight difference between PAL & NTSC systems.

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221063B

6th Sem / ECE, ECE (For Speech and Hearing Impaired)

Subject : Consumer Electronics

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 The thickness of DVD is:

- a) 0.66 mm
- b) 1.2 mm
- c) any thickness
- d) none of these

Q.2 Which of the following is a transducer:

- a) VCD
- b) DVD
- c) microphone
- d) none of these

Q.3 Microphone is _____ device.

- a) Output
- b) Input
- c) Both Input and output
- d) None of these

Q.4 in subtractive mixing if all colours are mixed, the colour obtained is:

- a) red b) white
- c) black d) none of these

Q.5 In CVS, blanking level is kept at:

- a) 100% b) 75%
- c) 50% d) none of these

Q.6 Full form of LCD is

- a) Liquid crystal display
- b) Light current density
- c) Light compressed Data
- d) None of these

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 A loudspeaker converts electric signal to _____ signal.

Q.8 In tv, which colour difference signal is not transmitted from transmitter to receiver _____

Q.9 A carbon microphone is based on the change in _____ through the circuit:

Q.10 Indian tv system has CCIR _____ system

Q.11 VSB stands for _____.

Q.12 Full form of PAL is _____.

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 What is Scanning? Explain the need of interlaced scanning.

Q.14 Draw the bandwidth diagram of Indian colour tv system.

Q.15 Why the storage capacity of DVD is more than VCD, though both have same program area.

Q.16 Write any four difference between monochrome tv & colour tv.

Q.17 Draw vector diagrams of the following colours:

- a) Red
- b) Cyan
- c) Magenta

Q.18 Explain the working of LCD.

Q.19 Explain the audio/video compression techniques with suitable examples.