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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 tristimulus value of G is :

- a) .3                                      b) .59
- c) .11                                     d) None of these

Q.2 The thickness of DVD is:

- a) 1.2mm                                b) .15mm
- c) .66mm                                d) None of these

Q.3 MPEG stands for

- a) Mega Picture Expert Group
- b) Motion Picture Expert Group
- c) Minimum Picture Expert Group
- d) None of these

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Q.4 The blanking level in CVS is set at :

- a) 72%                                    b) 75%
- c) 100%                                 d) None of these

Q.5 The color burst is added at:

- a) Frond porch                        b) back porch
- c) Both                                   d) None of these

Q.6 Which color difference signal is not transmitted from tv transmitter to tv receiver:

- a) R-Y                                    b) G-Y
- c) B-Y                                    d) None of these

**SECTION-B**

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

Q.7 Expand VSB

Q.8 Expand CCIR

Q.9 The bandwidth of Indian TV system is\_\_\_\_\_

Q.10 Expand DVD

Q.11 Which laser is used to burn data on VCD/DVD ?

Q.12 What is the depth of pit in VCD ?

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### SECTION-C

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

- Q.13 Explain optical recording on DVD.
- Q.14 Explain the need of synchronizing pulses.
- Q.15 What is flicker ? Explain , how to remove it.
- Q.16 Explain concept of compatibility consideration between monochrome & color TV.
- Q.17 Explain additive & subtractive mixing of colors.
- Q.18 Explain plumbicon monochrome camera tube construction & working.
- Q.19 What is a microphone ? Explain carbon microphone in detail.
- Q.20 Explain PAL TV Receiver block diagram & color difference signals.
- Q.21 Explain digital video compression techniques.
- Q.22 Explain how DVD stores more data as compared to VCD With reference to program area & compression techniques.

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### SECTION-D

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

- Q.23 Compare NTSC, SECAM & PAL TV systems, in detail.
- Q.24 Explain basic principle & working of LCD & LED TV.
- Q.25 Explain the following:  
a) Cable TV b) DTH C) CCTV

(1480)

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