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DIPLOMA-VIEP ECE

Term-End Examination

June, 2012

BIEL-034 : AUDIO AND VIDEO ENGINEERING

Time : 2 hours

Maximum Marks : 70

Note : Attempt any five questions in all. Question No. 1 is compulsory. All questions carry equal marks.

1. State True or False. **7x2=14**
- (a) The speakers which cover low frequencies from 16 Hz to 1000 Hz are called Tweeters.
 - (b) In practical Hi-Fi system signal to noise ratio should be better than 50 dB.
 - (c) Laser beam in CD player is reflected back from pits on CD.
 - (d) Primary colors are red, blue and green.
 - (e) Dark current in a camera tube is in nano amperes.
 - (f) Function of colour killer is to off chroma section in case of Black and White transmission.
 - (g) CCTV and CATV are same.
2. (a) What is the basic difference between Stereo amplifier and Mono amplifier ? **4**
- (b) Draw block diagram of Hi-Fi Amplifier and explain its working. **10**

3. (a) Explain principle of detection (reproduction) in CD player. 7
 (b) What are the advantages of florescent display system used in CD player? 7
4. Draw Composite Video Signal and explain it with waveforms. 14
5. Draw Delta gun color picture tube and explain its working. 14
6. Explain working of PAL - D decoder with the help of neat block diagram. 14
7. Explain Working Principle and give specification of the following components used in Cable T.V.
 (i) LNBC (ii) Attenuator 2x7=14
8. Write short notes on (any four) : 4x3½=14
 (a) MATV
 (b) Yagi Uda Antenna
 (c) Remote Control for CD player
 (d) Graphic equalizer
 (e) VSB transmission
 (f) Plumbicon Camera tube
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