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DIPLOMA-VIEP ECE**Term-End Examination****December, 2011****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 question carry *equal* marks.

1. Choose Correct Answer. 7x2=14
- (a) Human System of hearing is _____.
(i) Monophonic
(ii) Stereophonic
(iii) either (i) or (ii)
(iv) None of the above
- (b) A compact disc contains record of audio/
video signal in _____ form.
(i) Digital (ii) Analog
(iii) Chemical (iv) None of the above
- (c) The Horizontal frequency of T.V. System in
India is _____.
(i) 50 Hz (ii) 625 Hz
(iii) 15625 Hz (iv) 15725 Hz
- (d) The aspect ratio in T.V. receiver is _____.
(i) 3 : 1 (ii) 3 : 2
(iii) 4 : 3 (iv) 5 : 4

- (e) Vidiocon and plumbicon camera tube operates on the principle of _____.
 - (i) Photo conduction
 - (ii) Photo emission
 - (iii) Photo volatic
 - (iv) Heat conduction
 - (f) In PAL system, phase of R-Y signal is changed every alternate line by _____.
 - (i) 90°
 - (ii) 100°
 - (iii) 270°
 - (iv) 180°
 - (g) CATV Stands for _____.
 - (i) Common Amplifier TV
 - (ii) Charged Antenna TV
 - (iii) Community Amplifier TV
 - (iv) Community Antenna TV
2. (a) Explain difference between stereo amplifier and mono amplifier. 7
- (b) Compare woofer, and Tweeter. 7
3. Draw block diagram of CD player and explain its working. 14
4. (a) Explain interlaced scanning in TV. 8
- (b) Define luminance, hue and saturation in TV. 6

5. Draw block diagram of monochrome TV receiver and explain its working. 14
 6. Draw circuit diagram of chroma signal amplifier and explain its operation. 14
 7. Draw block diagram of Direct To Home System (DTH) and explain its working principle. 14
 8. Write short notes on (*any four*) 4x3½=14
 - (a) CCTV
 - (b) EHT
 - (c) Vidicon Camera
 - (d) T.V. Transmitter
 - (e) CCIR Standard for T.V.
 - (f) Function of controls in CD Player.
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