No. of Printed Pages: 2

BIEL-034

DIPLOMA-VIEP (DECVI)

Term-End Examination

December, 2013

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) Aspect ratio in a standard definition TV is 4:3.
- (b) Woofers are used for Low frequency response.
- (c) The TV picture is traced by a beam of light. Choose the **correct** answer for the following:
- (d) Most TV systems uses:
 - (i) Linear scanning
 - (ii) Circular scanning
 - (iii) Non linear scanning
 - (iv) None of these
- (e) For converting the analog signal from the microphone in to a digital signal.
 - (i) AM is used
- (ii) FM is used
- (iii) PCM is used
- (iv) None of these
- (f) The signal essential to the operation of a black and white TV is:
 - (i) Chrominance signal
 - (ii) Luminance signal
 - (iii) Composite video signal
 - (iv) Control Signal

	(g)	In NTSC system, the colour difference signals are: (i) Transmitted together (ii) Not transmitted together (iii) Transmitted in antiphase (iv) Transmitted in quadrature
2.	(a)	Explain with the help of a block diagram 7
	(b)	working of a Hi-Fi amplifier. What do you mean by Dolby NR recording system? How it works?
3.	(a)	Describe the working of CD player with help of a suitable block diagram.
	(b)	Discuss the advantages of florescent display system used in CD player.
4.	(a)	What is interlaced scanning? How it is 7 done?
	(b)	Draw a composite video signal wave form 5 showing: (i) Pedestal height (ii) Blanking pulse (iii) Colour burst
5.	Describe colour TV transmitter and also explain its major blocks with the help of block diagram.	
6.	Com	pare NTSC, PAL and SECAM TV Systems. 14
7.	(a)	Discuss the various design aspects for cable 7 TV network.
	(b)	What do you mean by DTH? How it 7 works?
8.	Write (a) (b) (c) (d) (e) (f)	e short note on (any four): Graphic Equalizer Functions of Remote Control Image Continuity Additive colour mixing PIL Colour Killer Control