No. of Printed Pages: 4

BIEL-034

DIPLOMA - VIEP - ELECTRONICS AND COMMUNICATION ENGINEERING (DECVI)

00399

Term-End Examination

December, 2017

BIEL-034: AUDIO AND VIDEO ENGINEERING

Time: 2 hours

Maximum Marks: 70

Note: Attempt any five questions. Question no. 1 is compulsory. All questions carry equal marks.

1. Select the best alternative.

 $7 \times 2 = 14$

- (a) A woofer should be fed from the input through a
 - (i) Low pass filter
 - (ii) High pass filter
 - (iii) Band pass filter
 - (iv) Band stop filter

(b)	A video consists of a sequence of			
	(i)	Frames		
	(ii)	Signals		
	(iii)	Packets		
	(iv)	Slots		
(c)	In a	television receiver, an electron beam is		
	defle	ected by		
	(i)	Electromagnetic		
	(ii)	Electrostatic		
	(iii)	Either (i) or (ii)		
	(iv)	None of these		
(d)	Rece	eiving antenna for a television is		
	norn	nally a		
	(i)	Folded dipole		
	(ii)	Parabolic reflector		
	(iii)	Yagi antenna		
	(iv)	Loop antenna		
(e)	Which of the following camera tubes uses			
	lead	oxide (PbO) for the photoconductive		
	targ	et plate?		
	(i)	Vidicon		
	(ii)	Plumbicon		
	(iii)	Saticon		
	(iv)	Image Orthicon		

(f)	Camera signal output without sync is called
	(i) Black burst
	(ii) Generator lock video
	(iii) Composite video
	(iv) Non-composite video
(g)	In a TV system, indicate the true statement.
	(i) Picture is AM, sound is FM.
	(ii) Picture is FM, sound is AM.
	(iii) Picture is AM, sound is AM.
	(iv) Picture is FM, sound is FM.
2. (a)	Draw and explain the block diagram of a Public Address (PA) system with its applications.
(b)	Explain the function of a Graphic equalizer.
3. (a)	What are the advantages of a fluorescent display system used in a CD player?
(b)	Explain the working principle of detection process used in a CD player with a neat
	diagram.
4. (a)	What is the need of standards for colour signal transmission and reception?
(b)	Discuss the important specifications of CCIR-B standard in detail.
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5.		Oraw and explain the block diagram of Colour IV transmitter with the help of a neat sketch.				
6.		n the help of a labelled block diagram, ain the following:				
	(a)	Burst pulse blanking process	7			
	(b)	EHT generation	7			
7.		te short notes on any four of the wing: $4 \times 3 \frac{1}{2}$	=14			
	(a)	Dolby NR Recording System				
	(b)	Crossover Network				
	(c)	Delta Gun Picture Tube				
	(d)	NTSC System				
	(e)	DTH (Direct to Home) System				
	(f)	CCTV System				