

3472

BOARD DIPLOMA EXAMINATION, (C-09)

MARCH / APRIL - 2019

DECE - IV SEMESTER EXAMINATION AUDIO & VIDEO SYSTEMS

Time: 3 Hours [Total Marks: 80

PART - A

 $3 \times 10 = 30$

Instructions:

- (1) Answer ALL questions.
- (2) Each question carries THREE marks.
- (3) Answer should be brief and straight to the point.
- 1 List any three differences between CD and DVD.
- 2 Define the following terms related to sound signal: (1) reflection (2) refraction (3) absorption of sound.
- **3** Write any three advantages of C.D.
- 4 What is the need for synchronization?
- 5 Distinguish between progressive scanning and interlaced scanning.
- 6 Mention the differences between additive mixing and subtractive mixing.
- 7 Write the function of Detector in TV receiver.
- 8 What is the band width occupied by a colour signal?
- 9 List out the deficiencies of the existing TV system.
- 10 What is the basic principle of television via satellite?

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		PART - B	10×5=50	
Inst	tructio	(1) Answer any FIVE question (2) Each question carries TEL (3) Answer should be compreh for valuation is the content the answer.	N marks. pensive and the criterion	
11	(a) (b)	Explain volume control circuit used in stereo amplifier. Explain the principle of Dolby noise reduction system.		
12	(a)	Explain the method of optical recording of sound on Photographic Film.		
	(b)	Explain the principle of magnetic recording reproduction of sound.	ing and 5	
13	Dist	tinguish positive and negative modulation.		
14	(a) (b)	List any eight CCIR-B standards. Write frequency allocation of TV channels in India.		
15	(a) (b)	Draw the block diagram of a color TV re Briefly explain the functions of various		
16	(a) (b) (c)	Draw a neat sketch of silicon diode array Explain the working of above camera tub List the advantages of silicon diode came	e.	
17	(a)	Explain how the existing TV system can system.	w the existing TV system can be improved in HDTV	

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Draw the block diagram of TV remote control transmitter. Explain the

(b) List the standards of HDTV.

function of each stage.

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