

## C14-EC-502

## 4631

# BOARD DIPLOMA EXAMINATION, (C-14) MARCH/APRIL—2017 DECE—FIFTH SEMESTER EXAMINATION

### CONSUMER ELECTRONICS

Time: 3 hours [ Total Marks: 80

#### PART—A

 $3 \times 10 = 30$ 

Instructions: (1) Answer all questions.

- (2) Each question carries three marks.
- (3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.
- 1. What is microphone? Classify microphones.
- 2. Define the concept of HiFi.
- 3. Define speech, music and noise.
- **4.** State the frame and field frequencies.
- **5.** State the need of horizontal and vertical scanning.
- **6.** List the standards of TV transmissions as per CCIR-B.
- **7.** Write the characteristics of human eye with regard to perception of colours.
- **8.** Write comparisons of additive and subtractive mixing.

10.	List applications of projection TV.	
	<b>PART—B</b> 10×	<5=50
Inst	<ul> <li>(1) Answer any five questions.</li> <li>(2) Each question carries ten marks.</li> <li>(3) Answers should be comprehensive and the crit for valuation is the content but not the length answer.</li> </ul>	
11.	Explain the construction and working of carbon microphor along with its polar characteristics.	ne 8+2
12.	Explain the constructional features and principle of operation of PMMC loudspeaker.	on 5+5
13.	Explain the principle of magnetic recording and reproduction.	5+5
14.	<ul><li>(a) Explain the stereo system.</li><li>(b) Explain the interlaced scanning.</li></ul>	5 5
15.	(a) Sketch the composite video signal, label its parts an explain them.	7
16.	(b) Write frequency allocation of TV channels used in India.  Draw and explain the block diagram of colour TV transmitter.	
17.	Draw and explain the block diagram of colour TV receiver.	5+5
18.	Draw and explain complete block diagram of CATV.	5+5

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AA7(A)—PDF

9. Write important specifications of UHD TV.

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