



TED (10) 4049/5051

N19 - 05180

Reg.No.

(Revision-2010)

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DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/ MANAGEMENT/COMMERCIAL PRACTICE OCTOBER/NOVEMBER-2019

AUDIO AND VIDEO SYSTEMS

[Maximum marks: 100] (Time: 3 Hours) PART - A[Maximum marks: 10] I. (Answer all questions in one or two sentences, Each question carries 2 marks) (1). Define intensity and loudness of sound. (2). State aspect ratio. (3). What is meant by pedestal and pedestal height? (4). What is the need of Balun in TV receiver? (5). List the characteristics of a colour. $(5 \times 2 = 10)$ PART - B [Maximum marks: 30] II. (Answer any *five* of the following questions, Each question carries six marks) (1). Explain about methods of sound recording. (2). Explain the principle of stereo system. (3). List the advantages of interlaced scanning. (4). State the importance of polarity of video signal. (5). Explain video IF amplifier block diagram. (6). Explain the operation of deltagun colour picture tube. (7). List the advantages and disadvantages of PAL system. $(5 \times 6=30)$ PART - C [Maximum marks: 60] (Answer one question from each unit. Each question carries 15 marks) UNIT -I III. (a) Explain PA system with diagram. (8)(b) Explain construction of Ribbon microphone. (7)OR

(IV) (a) Explain magnetic recording and reproduction of sound

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UNIT-II

V. (a) Explain the block diagram of monochrome TV receiver.	(9)
(b) Explain the need of blanking retrace pulses.	(6)
OR	
VI. (a) Explain working principle of TV camera tube.	(8)
(b) Explain SMPS with diagram.	(7)
UNIT-III	
VII. (a) Explain the block diagram of VHF tuner.	(8)
(b) Explain peak AGC circuit.	(7)
OR	
VIII. (a) Explain operation of transistor blocking oscillator.	(8)
(b) Explain push pull AFC circuits.	(7)
UNIT-IV	
IX. (a) Explain the block diagram of Digital TV.	(8)
(b) Explain CCIV with diagram.	(7)
OR	
X. (a) Explain Trinitron picture tube.	(7)
(b) Explain encoder block diagram of PAL TV system.	(8)