

Seat
No.

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DFI1362

Television and Consumer Electronics (New) (1290)

P. Pages : 2

Time : Three Hours

Max. Marks : 100

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Answersheet should be written with blue ink only. Graph or diagram should be drawn with the same pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. Solve **any two** subquestions from each unit.
5. Draw neat diagrams wherever necessary.
6. Assume suitable data, if necessary.
7. Figures to the right indicate full marks.

UNIT - I

1. a) Draw and explain construction and working principle of vidicon camera tube. **10**
b) Draw and explain complete block diagram of monochrome television receiver. **10**
c) Write note on. **10**
 - i) Interlace scanning.
 - ii) Vestigial sideband Transmission signal.

UNIT - II

2. a) Write note on - **10**
 - i) Frequency interleaving technique.
 - ii) NTSC system.
b) Draw and explain in detail the block diagram of SECAM encoder and decoder. **10**
c) Write note on - **10**
 - i) Compatibility issues in colour TV transmission.
 - ii) Colour mixing.

UNIT - III

3. a) What is HDTV system ? Explain any two HDTV parameters ? Also, explain the block diagram of HDTV receiver. **10**
- b) Write note on - **10**
i) DTH system.
ii) CCTV.
- c) Write note on - **10**
i) Digital compression techniques.
ii) Digital television transmitter.

UNIT - IV

4. a) Draw the block diagram of disc recording and reproduction system. Explain the function of each block. **10**
- b) Explain in brief the working of Public Address System. Hence, draw and explain its installation plan for an Auditorium. **10**
- c) Write note on - **10**
i) Satellite radio reception.
ii) Monophony and stereophony system.

UNIT - V

5. a) Explain operation of solar cells with neat diagram. Also, give its applications, advantages and disadvantages. **10**
- b) Draw the block diagram of CD player and explain it in detail. Also, give the various specifications of CD. **10**
- c) Write note on - **10**
i) Microwave oven.
ii) FAX machine.
