

Seat
No.

--	--	--	--	--	--



मध - 059

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. Answer **any two** sub questions from each unit.
5. Neat diagram must be drawn wherever necessary.
6. Figures to the right indicates full marks.

UNIT - I

1. a) Draw the frequency spectrum for vestigial sideband transmission in PAL system in detail & explain it. 10
b) Draw the construction of plumbicon camera tube & explain it's working, also state its advantages. 10
c) What are the reasons of TV standards being different ? Give detail specifications of CCIR - B stds. adopted by India. 10

UNIT - II

2. a) Draw SECAM decoder system & explain in brief. Also state its advantages & disadvantages. 10
b) Draw the diagram to show operating principle of colour camera tube & explain in detail. 10
c) Draw & explain structure of trinitron colour picture tube. 10

UNIT - III

3. a) What are the objectives of MPEG standards. Explain its architecture in detail. 10
b) Draw & explain block diagram of digital transmitter. 10

- c) What are the proposed HDTV standards & compatibility considerations, explain in detail. 10

UNIT - IV

4. a) Draw & explain PA system for college sports. 10
- b) Draw block diagram & explain working of magnetic tape recorder. 10
- c) Explain in detail with the help of diagram playback process of compact disc. 10

UNIT - V

5. a) Explain how fuzzy logic is used in washing machine & explain the working of washing machine. 10
- b) Explain operation of solar cell with neat diagram also state its advantages & disadvantages. 10
- c) Write short notes on Email & pendrive. 10
