# 22425

### 23124 3 Hours / 70 Marks

Seat No.

Instructions - (1) All Questions are Compulsory.

- (2) Answer each next main Question on a new page.
- (3) Illustrate your answers with neat sketches wherever necessary.
- (4) Figures to the right indicate full marks.
- (5) Assume suitable data, if necessary.
- (6) Use of Non-programmable Electronic Pocket Calculator is permissible.
- (7) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

### Marks

## 1.Attempt any <u>FIVE</u> of the following:10

- a) Draw the crystal microphone.
- b) Explain impedance matching of PA system.
- c) Define :-
  - i) Selectivity
  - ii) Fidelity.
- d) List the advantages of OLED.
- e) What is the use of pick-up device in digital camera.
- f) Compare woofer and mid range speaker. (Any two points)
- g) State the four electric specification of microwave oven.

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2.

3.

4.

5.

Draw the block diagram of monochrome. (Black and White) c) T.V. transmitter and state the function of each block.

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- a) Describe the need of equilizing pulses, draw the structure of vertical synchronising pulses.
- b) i) State operating principle of digicam.
  - ii) Explain picture processing of CCD sensor.
- c) Draw and explain the working of MP3 player.

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