

22425

23242

3 Hours / 70 Marks

Seat No.

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- 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) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any FIVE of the following: 10
- a) Define :
 - i) Fidelity
 - ii) Selectivity
 - b) List the different component used in CD player.
 - c) Compare mono amplifier and stereo amplifier. (any two points)
 - d) Differentiate between positive modulation and negative modulation. (any two points)
 - e) State any four electrical specification of microwave oven.
 - f) List any four control of Hi-Fi-amplifier.
 - g) Explain the function of exposier in photocopier machine.

P.T.O.

- 2. Attempt any THREE of the following:** **12**
- a) Describe the operating principle of condenser type of microphone with neat diagram.
 - b) Give the troubleshooting produce of colour TV receiver system.
 - c) State Grassman's law. Draw the sketch of additive colour mixing.
 - d) Explain interlaced scanning with label diagram.
- 3. Attempt any THREE of the following:** **12**
- a) Sketch the block diagram of MP3 player.
 - b) State four electrical specification with values for washing machine.
 - c) Draw the block diagram of PAL-D decoder and write function of each block.
 - d) State any four CCIR-B standard for colour signal transmission and four CCIR-B standards for reception in TV.
- 4. Attempt any THREE of the following:** **12**
- a) Explain VSB transmission. State its any four advantages.
 - b) Draw and describe DTH system.
 - c) Explain the working of photocopier with its block diagram.
 - d) Explain any four basic characteristic of sound signal.
 - e) Explain the working of MP3 player with block diagram.
- 5. Attempt any TWO of the following:** **12**
- a) Describe with the help of block diagram the operation of colour TV receiver.
 - b) Draw block diagram of washing machine. State and justify types of washing machine having more advantages.
 - c) Draw labelled diagram of composite video signal and state the function of line Eync. pulse.

6. Attempt any TWO of the following:

- a) Define vertical and horizontal resolution in brief.
- b) i) Name the block diagram shown in Fig. No. 01.
 ii) Identify the block 'A', 'B' and 'C' in given block diagram.
 iii) State the functions block 'A' and 'B'.

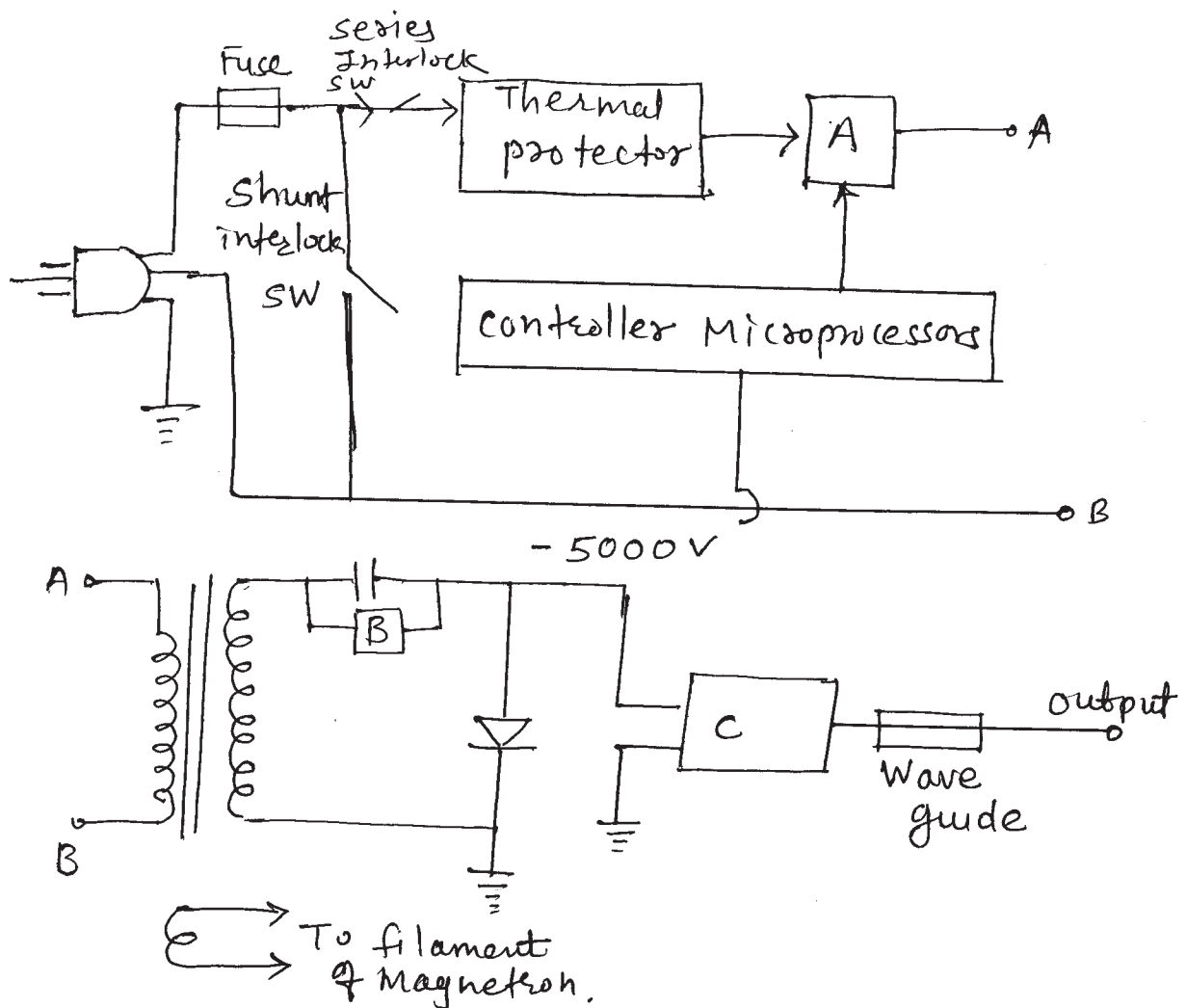


Fig. No. 01.

- c) Describe the working of pick-up assembly of CD player with help of neat diagram.