

Total No. of printed pages = 2

Et-601/CE&M/6th Sem/2014/N

## CONSUMER ELECTRONICS AND MAINTENANCE

Full Marks - 70

Pass Marks - 28

Time - Three hours

The figures in the margin indicate full marks  
for the questions.

Answer any *five* questions.

1. (a) What is a microphone ? What are the different types of microphone ? Describe the construction and working principle of a carbon microphone. 2+2+6=10
- (b) Explain the following in respect of microphones : 2+2=4
  - (i) Sensitivity
  - (ii) Directivity.
2. (a) Draw the block diagram of a tape recorder and explain the function of each block in details. 10

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- (b) Draw a neat diagram of a tape transport mechanism and explain its working in brief. 4
3. (a) Draw the block diagram of a superheterodyne AM radio receiver and explain the function of each block. 10
- (b) Mention some common faults occur in radio receiver and their rectification. 4
4. (a) Draw the block diagram of a monochrome TV receiver and describe function of each block in details. 12
- (b) Draw a diagram of a Yagi uda antenna. 2
5. Explain the working principle of a VCR with the help of a neat block diagram. 14
6. Write short notes on any two :  $2 \times 7 = 14$
- (a) Microwave oven
- (b) Washing machine
- (c) Dish washer
- (d) Cross over network in loudspeaker.