

Total No. of printed pages = 3

Et-601/CE&M/6th Sem/2013/M

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 ? Explain the working of a carbon microphone with the help of a neat diagram. 10
- (b) Explain in brief the parameters on which quality of a microphone depends. 4
2. (a) What are the characteristics of a good loudspeaker ? 4
- (b) With the aid of a neat sketch explain the principle of working of a moving coil loudspeaker. 10

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3. Draw the block diagram of a superheterodyne radio receiver and explain the function of each block in details. 14
4. Draw the block diagram of a monochrome TV receiver system and describe the function of each block. 14
5. (a) Explain tape transport mechanism with a neat sketch. 4
- (b) Draw the block diagram of a tape recorder and explain the function of each block in brief. 10
6. Explain the working principle of a VCR with the help of a neat block diagram. 14
7. (a) What do you understand by stereophony ? How does it differ from monophonic system ? Explain with neat sketches. 8
- (b) Explain the function balance, bass and treble control. 6

8. Write short notes on any two : $7 \times 2 = 14$

- (a) Primary colours
- (b) Microwave oven
- (c) Washing machine
- (d) Vacuum cleaner
- (e) PAL system
- (f) Audio CD player.