

Total No. of printed pages = 2

Et-601/CE&M/6th Sem/ETC/2017/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. What is a microphone ? What are the different types of microphone ? Discuss the principle, construction and working of condenser microphone. Also state advantages and disadvantages of condenser microphone. 2+2+8+2=14
2. What is loudspeaker ? Classify them. Explain the construction and working principle of an EMMC loudspeaker. Also mention few applications of it. 2+2+8+2=14
3. (a) Draw the block diagram of a superheterodyne AM radio receiver and discuss the function of each block in details. 10
(b) Compare AM and FM receiver. 4

[Turn over

4. Draw the block diagram of a monochrome TV receiver and describe the function of each block in details. 14
5. (a) Explain tape transport mechanism with a proper diagram. 7
(b) Describe the function of Capstan, Pinch Roller and Pulley of a tape recorder. 7
6. Draw the block diagram of a VCR and explain the function of each block in details. 14
7. What is stereo system ? Draw the block diagram of a stereo system and explain its working. 2+12=14
8. Write short notes on any *two* : 7×2=14
- (a) Microwave oven
 - (b) Washing machine
 - (c) Primary colours
 - (d) Colour TV picture tube
 - (e) Yagi Uda antenna.