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RETEST EXAMINATION – 2019

Semester : 6th

Subject Code : Et- 601

**CONSUMER ELECTRONICS AND
MAINTENANCE**

Full Marks – 70

Time – Three hours

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

Instruction :

1. *All* questions of PART – A and PART – B are compulsory.

PART – A

Marks – 25

1. Fill in the blanks : 1×10=10
 - (a) A moving coil Microphone works on the principle of _____.
 - (b) The maximum range of audio frequency is _____ Hz .

[Turn over

- (c) Woofer extends _____ frequency response and Tweeter extends _____ frequency response .
- (d) Baffle is used with _____ .
- (e) VCR uses a _____ transformer.
- (f) The field frequency in T.V. receiver is _____ Hz.
- (g) In T.V. receiver the sound signal is _____ modulated and video signal is _____ modulated.
- (h) NTSC stands for _____ .
- (i) A microphone based on piezoelectric effect is called _____ microphone.
- (j) Horizontal Sync. frequency is _____ Hz.

2. State whether the following statements are true or false : $1 \times 10 = 10$

- (i) In principle a Loudspeaker is like a generator.
- (ii) A cross-over network divides the incoming signal into separate frequency ranges for each loudspeaker .



- (iii) Tweeter extends high frequency response.
- (iv) Head gap allows magnetic line of force to pass through the tape.
- (v) In T. V. system the lines frequency is equal to 625 Hz.
- (vi) In TV system total channel band-width VHF and lower UHF in India is equal to 14 MHz.
- (vii) Relative speed of tape in VCR is increased by using rotating heads.
- (viii) In Carbon microphone not uses external DC supply.
- (ix) Stereophony gives the sense of direction to the listener.
- (x) A balun is a step up transformer.

3. Choose the correct option from the following : $1 \times 5 = 5$

- (i) Impedance of a loudspeaker is of the order of _____
 - (a) Ohms
 - (b) Kilo-ohms
 - (c) Mega – ohms
 - (d) None of these

(ii) A loudspeaker works on the principle of _____.

- (a) Motor
- (b) Generator
- (c) Amplifier
- (d) Detector

(iii) India uses CCIR _____ standard.

- (a) A
- (b) B
- (c) C
- (d) D

(iv) Stereophony gives sense of _____ to the listeners.

- (a) Loudness
- (b) Timber
- (c) Pitch
- (d) Direction

(v) India uses _____ Colour system.

- (a) NTSC
- (b) SECAM
- (c) PAL
- (d) None of these

PART - B
Marks - 45

4. What are the requirements of a good Loudspeaker ?
Name the different types of Loudspeaker, and with neat sketch explain any one of them.
2+1+6 =9

5. What is sensitivity, selectivity and fidelity of a radio receiver. Draw the block diagram of A.M. radio receiver and explain shortly each block.

6. Differentiate between monophonic and stereophonic system. Draw the block diagram of a stereophony system and explain each block.
1+8=9

7. Draw the block diagram of Monochrome T. V. receiver, and explain clearly each block.
3+6=9

8. Write the short notes on : (any two)

4½× 2= 9

- (i) Microphone
- (ii) VCR
- (iii) Microwave oven
- (iv) Tape transport mechanism
- (v) Base and treble control