

S.B. Roll No.....

**CONSUMER ELECTRONICS**  
**5<sup>th</sup> Exam/ECE/ETV/ECE-II/0612/0364/May'18**

**Duration: 3Hrs.**

**M.Marks:75**

**SECTION-A**

**Q1. Do as directed.**

**10x1.5=15**

- a. The DVD stands for \_\_\_\_\_.
- b. DTH stands for \_\_\_\_\_.
- c. Define hue.
- d. Woofer is meant for \_\_\_\_\_ frequencies
- e. A \_\_\_\_\_ oscillator is used in a digital watch.
- f. Moving coil microphone is used for \_\_\_\_\_.
- g. Biasing means \_\_\_\_\_ of the core.
- h. SIM card used in mobile phone stands for \_\_\_\_\_.
- i. The audio frequency ranges from \_\_\_\_\_.
- j. Primary colors are \_\_\_\_\_.

**SECTION-B**

**Q2. Attempt any five questions.**

**5x6=30**

- i. Describe the working principle and applications of microwave oven.
- ii. What is DTH? How does it work?
- iii. What are primary and secondary colors? Explain the concept of additive and subtractive mixing.
- iv. Explain basic block diagram of Photostat machine.
- v. Differentiate between carbon and condenser microphones.
- vi. Discuss the need of equalizing pulses.
- vii. Discuss in brief concept of horn loudspeaker.
- viii. What is interlaced scanning? Discuss in brief.

**SECTION-C**

**Attempt any three questions.**

**3x10=30**

**Q3.** Draw and explain the block diagram of monochrome TV receiver.

**Q4.** a) Compare LCD TV and LED TV.

b) Compare PAL, NTSC and SECAM system.

**Q5.** Explain the working principle of Moving coil microphone with the help of neat sketch .Give typical values, parameters and applications.

**Q6.** Write short note on:

- a) Cordless phones      b) Positive and negative modulation