

**Basics of Electrical & Electronics Engineering
Important 10 Mark questions**

Unit I

1. Explain the constructional details of lead acid battery.
2. Explain the working of Offline UPS with block diagram.

Unit II

1. Explain the principle of operation of servo motors.
2. What is the need of earthing? List the types of earthing. Explain any one of them.

Unit III

1. Explain the input and output characteristics of a transistor in CE configuration.
2. With a diagram, explain the working principle of light emitting diode.

Unit IV

1. Explain with diagram the working of half adder and full adder.
2. Draw the logic diagram of demultiplexer and explain it.

Unit V

1. Explain the operation of a decade counter with the logic diagram, waveforms and truth table.
2. Draw the logic diagram of 4 bit shift register and explain its four modes of operation.