

BASIC ELECTRONICS ENGINEERING

Question Bank

Convert i) $(4E7.2)_{16}$ to Octal ii) $(125.62)_8$ to Binary iii) $(8A9.B4)_{16}$ to Binary

Compare Microprocessor and Microcontroller

Perform $(15)_{10} - (28)_{10}$ using 6 bits 2's complement representation

What is Flip Flop? Draw and Explain Clocked SR Flip Flop

What is Universal Gate? Implement EX-OR gate Using NAND Gates

State and Prove Demorgans Theorems with the help of truth table

Design and Implement Full Adder

With the help of a block diagram, explain the operation of digital Multimeter.

Draw and explain block diagram of Digital Storage Oscilloscope

Explain block diagram of Power supply

Draw and explain block diagram of Function Generator.

Draw and explain the multi range analog ammeter

A $100\ \mu\text{A}$ meter movement with an internal resistance of $800\ \Omega$ is used in a 0-100 mA ammeter. Find the value of the required shunt resistance.

Explain the construction and working of LVDT

Explain the principle, operation and working of RTD

Explain the principle, operation and working of thermistor

What is accelerometer? Explain working of an accelerometer.

Define Selection Criteria of Sensors

Explain the principle, operation and working of LDR

Draw and explain the block diagram of an electronics communication system.

What is the need of modulation? Explain amplitude modulation in detail.

Give the comparison between twisted pair, co axial and fiber optics cable.

Draw and explain the block diagram of FM super heterodyne receiver

Draw and explain electromagnetic spectrum

Draw and explain block diagram of GSM