## Basics of Electronics and Microprocessor Engineering

## Important 10mark questions

### Unit I

1. Explain the forward and reverse bias characteristics of PN junction diode.
2. Explain in detail about how transistor act as switch.

### Unit II

1. Explain how an Op-Amp is used as comparator and buffer in detail.
2. Explain the characteristics of an operational amplifier in detail.

### Unit III

1. Draw the logic diagram of full adder and explain in detail.
2. Explain in detail about Mod n counter.

### Unit IV

1. Draw the block diagram of 8051 microcontroller and explain.
2. Explain the various addressing modes of 8051 in detail.

### Unit V

1. Explain the various modes of operation of 8255 IC in detail.
2. Explain sensor interfacing with 8051 in detail.