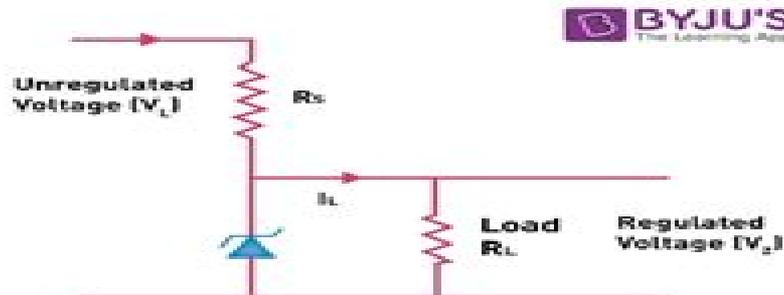


Basic Electronics Engineering Question Solution

Q1 Describe with the help of neat diagram, the operation of Zener as a voltage regulator.

Ans: Zener diode is a silicon semiconductor with a p-n junction that is specifically designed to work in the reverse biased condition. When forward biased, it behaves like a normal signal diode, but when the reverse voltage is applied to it, the voltage remains constant for a wide range of currents. Due to this feature, it is used as a voltage regulator in d.c. circuit. The primary objective of the **Zener diode** as a voltage regulator is to maintain a constant voltage. Let us say if Zener voltage of 5 V is used then, the voltage becomes constant at 5 V, and it does not



change.

Q2 Explain Half wave Bridge rectifier with neat waveforms.

Ans: A **half wave rectifier** is defined as a **type of rectifier** that only allows one half-cycle of an AC **voltage** waveform to pass, blocking the other half-cycle. Half-wave rectifiers are used to convert AC voltage to DC voltage, and only require a single **diode** to construct. A rectifier is a device that converts **alternating current (AC)** to **direct current (DC)**. It is done by using a diode or a group of diodes. Half wave rectifiers use one diode, while a **full wave rectifier** uses multiple diodes.

When a standard AC waveform is passed through a half-wave rectifier, only half of the AC waveform remains. Half-wave rectifiers only allow one half-cycle (positive or negative half-

Basic Electrical Engineering Question And Answer

TD Snyder



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