

Section-10

QuesH

Ans-

A digital Comparator magnitude Comparator is a logic device.

The logic device takes two numbers as its input in binary form and

determines whether one number is greater than less than or

equal to the other. Processing units (CPU) and micro-controllers (MCU).

Examples of digital Comparators include the CMOS 9063 and 4885 and the TTL 7485 and 74682.

Note: - An XNOR gate is a basic Comparator because its output is "1" only if two input bits are equal.

The analog equivalent of digital comparator is the voltage.

Comparator. Many micro controllers have analog comparator on some of their inputs that can be read or trigger and interrupt

8-bit magnitude Comparator. The 74HC688 is an 8 bit magnitude comparator.

If perform comparators of two 8-bit binary or BCD word input include clamp diodes.

This enables the use of almost limiting resistors to interface inputs of voltage in excess of V_{CC} .