Digital-Logic

**Q.NO-> What is digital system?**

The System which works on discrete Data (discontinuous data binary system or 0 and 1) is also known as digital system

Note: Binary system is such system of numbering in which only 2 digits are used 0 and 1.

Where 0 is represent OFF, False, NO etc’

And 1 is represent ON, True, Yes etc.

**Characteristics of digital system**.

* Based one discrete Data which are not continuous with time.
* Based on principle of logic 1 and 0 (high and low voltage)
* Used for general purpose
* They are more reliable because of less noise

**Q.No->2 What is the use of karnaugh map?**

-> Karnaugh map is the long form of k-map

->Algebric Minimization of Boolean functions.

->Developed by Karnaugh in 1953.

->the map method first proposed by Veitch and modified by Karnaugh, also Know as the “Veitch diagram” or “Karnaugh map.”

-> k-map is a pictorial method to solve Boolean expressions without using Boolean rules and therorem.

->K-map is a diagram made up of grid of squares.

->Each square represents one minterm

->K-map are also referred as 2D truth tables

**Multiplexer**

A multiplexer is a combination circuit that has 2n input line and single output line.

A multiplexer is an electronic switch that connects 1 out of ‘n’ input to an output

It is functionally complete i.e. all Boolean functions can be realized using one multiplexer without any other gates.

