

Section 2

Ques 2
(2)

Ans:- Simplifying Boolean Expression using K-map

* Consider the consecutive ones in the K maps cells and groups them (green boxes)

① Each groups should contain the largest number of ones and on same cell.

② The number of ones in a group must be a power of 2 i.e. a group can contain

what is the map explain with example :-

A Karnaugh map (K-map) is a pictorial method used to minimize the Boolean algebraic theorems and equations -

Manipulation. A k-map can be thought of as a special version of a truth table with two expressions to four variables.

variables are each minimized

How do you solve a k-map example.

- ① select k-map according to the number of variables
- ② identify patterns of max terms of 0's
- ③ For SOP put 1's in blocks of k-map dependent to the min terms (0's else where).
- ④ For SOP 0's in blocks of k-map dependent to the max terms (1's else where)