

Name:.....Student ID Sent by 26/12/2024

- 1) From the truth table below, using VEM to form the output as a function of $G(A, B, C)$.
Then minimize the obtained equation.

	Input				Output
Number	A	B	C	D	Y
0	0	0	0	0	1
1	0	0	0	1	0
2	0	0	1	0	0
3	0	0	1	1	0
4	0	1	0	0	1
5	0	1	0	1	d
6	0	1	1	0	0
7	0	1	1	1	0
8	1	0	0	0	d
9	1	0	0	1	1
10	1	0	1	0	0
11	1	0	1	1	1
12	1	1	0	0	1
13	1	1	0	1	d
14	1	1	1	0	d
15	1	1	1	1	d

Sent by 26/12/2024

2) Use the Quine-McCluskey Method to simplify

$$F(A, B, C, D, E) = \sum m(12, 13, 14, 15, 16, 18, 19, 21, 27, 28) + \sum m(\text{every number in your I.D. except } 0)$$