

$\{2, 3, 4, 5, 6\}$

Fault-location using matrix method:

(Faults)	f_0	f_1	f_2	f_3	f_4	f_5	f_6	(Test)	no. of 1's	no. of 0's
F^*	0	0	0	0	0	0	1	0	1	6
	0	0	0	0	0	1	1	1	2	5
	0	0	1	0	0	0	1	2	2	5
	1	1	1	1	0	1	1	3	6	1
	0	0	0	1	0	0	1	4	2	5
	<u>0</u>	<u>0</u>	<u>0</u>	1	<u>0</u>	1	1	5	<u>3</u>	<u>4</u>
	1	0	1	1	1	1	1	6	6	1
	1	1	1	1	1	1	1	7	7	0

$| \text{no. of 1's} - \text{no. of 0's} | = \text{Minimal}$

\therefore Considering Test 5

f_0	f_1	f_2	f_4	no. of 1's	no. of 0's
0	0	0	0	0	4
0	0	0	0	1	4
0	0	1	0	2	<u>1</u> <u>3</u>
1	1	1	<u>0</u>	3	<u>3</u> <u>1</u>
0	0	0	0	4	1 4
1	0	1	1	6	<u>3</u> <u>1</u>
1	1	1	1	7	4 0

f_3	f_5	f_7	no. of 1's	no. of 0's
0	0	1	0	<u>2</u> <u>1</u>
0	1	1	1	1 2
0	0	1	2	<u>2</u> <u>1</u>
1	1	1	3	0 3
1	0	1	4	<u>1</u> <u>2</u>
1	1	1	6	0 3
1	1	1	7	0 3

considering Test 3

f_4	
0	0
0	1
0	2
0	4
1	6
1	7

&

f_0	f_1	f_2	
0	0	0	0
0	0	0	1
0	0	1	2
0	0	0	4
1	0	1	6
1	1	1	7