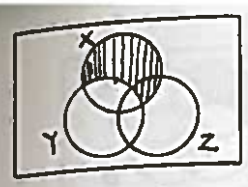
A	B	C	D	B'	C'	D'	C'+D	AB'(C'+D)	ABC'	C'D'	Q
0	0	0	0	1	1	1	1	0	0	1	1
0	0	0	1	1	1	0	1	0	0	0	0
0	0	1	0	1	0	1	0	0	0	0	0
0	0	1	1	1	0	0	1	0	0	0	0
0	1	0	0	0	1	1	1	0	0	1	1
0	1	0	1	0	1	0	1	0	0	0	0
0	1	1	0	0	0	1	0	0	0	0	0
0	1	1	1	0	0	0	1	0	0	0	0
1	0	0	0	1	1	1	1	1	0	1	1
1	0	0	1	1	1	0	1	1	0	0	1
1	0	1	0	1	0	1	0	0	0	0	0
1	0	1	1	1	0	0	1	0	0	0	0
1	1	0	0	0	1	1	1	0	1	1	1
1	1	0	1	0	1	0	1	0	1	0	1
1	1	1	0	0	0	1	0	0	0	0	0
1	1	1	1	0	0	0	1	0	0	0	0

(4)Q=A'BC+AB'D'+A'+B'+CD'

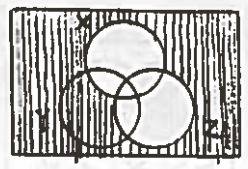
A	B	C	D	A'	B'	D'	A'BC	AB'D'	CD'	Q
0	0	0	0	1	1	1	0	0	0	1
0	0	0	1	1	1	0	0	0	0	1
0	0	1	0	1	1	1	0	0	1	1
0	0	1	1	1	1	0	0	0	0	1
0	1	0	0	1	0	1	0	0	0	1
0	1	0	1	1	0	0	0	0	0	1
0	1	1	0	1	0	1	1	0	1	1
0	1	1	1	1	0	0	1	0	0	1
1	0	0	0	0	1	1	0	1	0	1
1	0	0	1	0	1	0	0	0	0	1
1	0	1	0	0	1	1	0	1	1	1
1	0	1	1	0	1	0	0	0	0	1
1	1	0	0	0	0	1	0	0	0	1
1	1	0	1	0	0	0	0	0	0	1
1	1	1	0	0	0	1	0	0	1	1
1	1	1	1	0	0	0	0	0	0	0

(5)Q=(X+Y+Z')(Y'+Z)

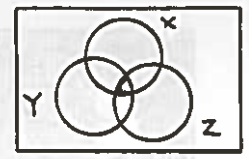
X	Y	Z	Y'	Z'	X+Y+Z'	Y'+Z	Q
0	0	0	1	1	1	1	1
0	0	1	1	0	0	1	0
0	1	0	0	1	1	0	0
0	1	1	0	0	1	1	1
1	0	0	1	1	1	1	1
1	0	1	1	0	1	1	1
1	1	0	0	1	1	0	0
1	1	1	0	0	1	1	1



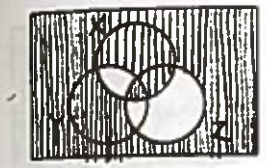
XY'



X'Z'

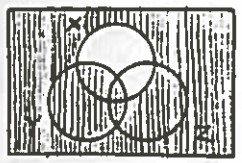


XYZ

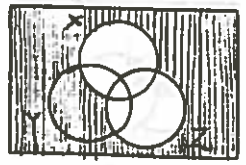


Q

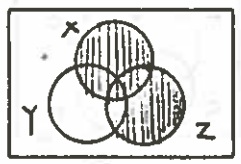
(2)Q=(X'+Y)(X'+Z')(X+Z)



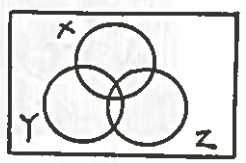
X'+Y



X'+Z'



X+Z



Q