

Ans. To The Q.No-2

After 2 zero padding, 9×9 matrix \Rightarrow

0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	1	3	4	2	1	0	0
0	0	2	5	6	3	4	0	0
0	0	4	5	6	3	2	0	0
0	0	5	5	2	5	3	0	0
0	0	6	5	3	2	1	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0

Applying filter 1 with stride 1, 7×7 matrix \Rightarrow

0	0	0	0	0	0	0
1	4	8	9	7	3	1
2	7	13	14	13	7	4
4	9	15	14	11	5	2
5	10	12	12	10	8	3
6	11	14	10	6	3	1
0	0	0	0	0	0	0

Applying filter 2 with stride 1, 7x7 matrix

0	0	-1	3	4	2	1
0	0	3	8	10	5	5
0	0	7	13	16	8	7
0	0	11	15	14	11	9
0	0	15	15	11	10	6
0	0	11	10	5	7	4
0	0	6	5	3	2	1