

Q4.

The image C was obtained by convolving the image I with a  $2 \times 2$  kernel H.

$C =$

3	8	5	2	20
15	22	6	9	9
10	7	3	3	2
7	4	6	12	19

$I =$

1	0	5	0	2	0
0	1	0	0	0	9
0	7	0	3	0	0
1	0	0	0	0	1
2	0	2	0	6	0

- a) Find the four values of the kernel H. [2]
- b) What is the padding used? [1]
- c) What is the stride used? [1]
- d) Why is it so important to keep kernel size small? [1]