1.

a. The limits of are 0 to 1.

b. Z will be a (5×4) matrix.

c. Z[1,3] contains the largest positive value: 6.

d. Z[2,2] contains the largest negative value: -1

e. Z[0,1] = 0

2.

a. Z and U will be a (46×62×20) matrix and

b. The channel of input is 10 and the channel of output is 20.

c. There are 3\*3\*10\*46\*62\*20 = 5133600 multiplications must be performed to compute.

d. There are 1820 trainable parameters in this layer.

3.

a. \* \* (1-)

b.

\*=\*X[i+,j+]

c.