

Manarat International University (MIU)

Department of Computer Science and Engineering

Computer Vision and Robotics (CSE-437)

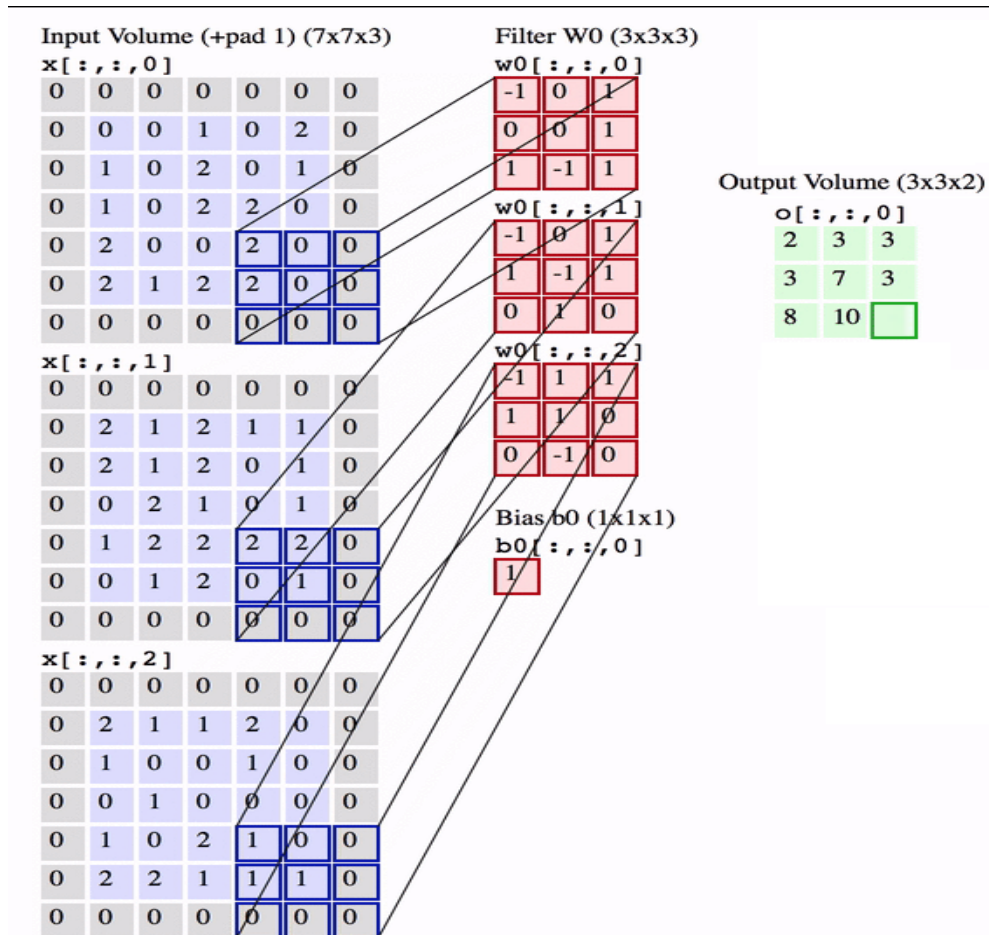
Class Test -2

Points: 20

Time: 30 minutes

1 Calculate the value of missing value

5



2. Explain **1x1 convolution** in a CNN network.

3

- 3 If CONV5-N denotes a convolutional layer with N filters, each having $5 \times 5 \times D$ filters, where D is the depth of the activation volume at the previous layer. Padding is 2, and stride is 1. 5

Then fill the blank

Layer	Activation Volume Dimensions (memory)	Number of parameters
INPUT	32x32x1	0
CONV5-10		

- 4 What is the role of pooling layers in a CNN. Define Min-Pooling layer. 3

- 5 Explain the concept of **Local Connectivity** and **Parameter Sharing** of a CNN. 4