## **Question 8:**

apsara
Date:
Problem 20
Dimension of Convolution.
Assuming padding to be in each direction of size.
Size of Convolution = (W-F+1+2Z) x [H-F+1+2Z) x
No. of channels.
Recursively solving for n-convolutions.
$W + (F-S-7z)(\frac{1}{5}n-1) \times H + (F-S-7z)(\frac{1}{5}n-1) \times N_{0.5}$ $S^{n}$ $S-1$ Channels
Number of Addition and Multiplications
For each point of the output,
(Multiplication + Addition)
Total = (W-F+1+2z) x (H-F+1+2z) x 2 F2
Fork n convolutions.
W (F-5-22) (\$n-1) x H + (F-5-22) (\$n-1) x F2 No. of
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