Pop Quiz (Week 4) – 8 pts [10 minutes]

Name	;
Stude	nt ID:
1.	 [1] The frequency domain response of a box filter in the spatial domain is a Box Sinc Gaussian
2.	[2] A box filter in spatial domain is not the ideal filter due toInfinite supportLeakage frequency

- 3. [1] Correlation is used to find which of the following
 - DFT coefficients

Aliasing artifacts

- o IDFT coefficients
- 4. **[4]** Consider a 1D box filter [1/3, 1/3, 1/3] and the gradient filter [-1, 0, 1]. What would be the operator gradient of box filter? Draw the 1D filter of the correct size.

[1/3, 1/3, 0, -1/3, -1/3]