

Q.1 Set. (A) Compare the Laplacian kernel, with and without diagonal terms of the following matrix at any two edge locations. Comment on the results.

$$\begin{bmatrix} 128 & 128 & 128 & 128 & 128 & 128 \\ 128 & 128 & 128 & 128 & 128 & 128 \\ 128 & 1 & 1 & 1 & 1 & 128 \\ 128 & 128 & 128 & 128 & 128 & 128 \\ 128 & 128 & 128 & 128 & 128 & 128 \\ 128 & 128 & 128 & 128 & 128 & 128 \end{bmatrix}$$