(d) For the Two deep learning networks shown below: (i) Explain what network1 is used for? What the training data for this network should look like? (Show example of input and output data during training and tastics) input and output data during training and testing) and how the network is trained and what is its expected output? (2) *Cinssification head Josephan Kontrols & Hof with Kontrols object classes cross-entrols regussion head networks (MSE) from Correlation and Pooling Final conv loature map (ii) Explain what network2 is used for? What the training data for this network should look like? (Show example of input and output data during training and interest of the expected output? (2) input and output data during training and testing) and how the network is trained and what is its expected output? (2) Convolution network Deconvolution national network 2 net 18 object defection and classification

(1) net 12 object detection and classification

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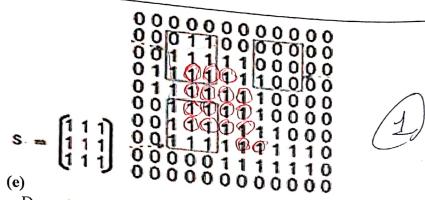
(91) FCN I solly Gow. Network I sewantic sagre

does pixel-level sognest.

(1) Train I Ting I a label

Mask (0 K)

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i- Do an "Erosion" operation on the Binary image shown using the shown structuring element (1) ii- Do a "Dilation" operation in the Binary image shown using the shown structuring element (1)

ii- Do a "Dilation" operation on the Binary image shown using the shown structuring element of (i) (1) iii- What is the name of the same structuring element on the Eroded image (outcome of (i)) (1)

iii- What is the name of the <u>process (i) followed by (ii)?</u> And what it is usually used for? (1)

0000000000000 00002-0000 0 00000000000 600000000000 000000000 0000000000 the overs a offer crosion(i) circles E often dilation of enededi. This is called aperening operations (crossion forbroad by dilation) revally used for specific shapes and roise removed.

Search for specific shapes a based on the