

1A) If, for a given feed forward network, if the weights of a given layer represents origin in its space (weight space), then the outputs of that layers will be zeros.

and since the activation function is  $\tanh$ ,  $\tanh(0) = 0$  so, the final outputs will be zeros and the weights of the layers will not get updated and they will represent a

single point 'in the error space.