A. Estimation Function 
$$(f(\hat{Y}_n))$$
.  $(Cost Function.)$ 

$$f(\hat{Y}_n) = \left(\sum_{i=0}^n w_i f(K)_i\right)^i \cdot \left(\sum_{i=0}^n w_i f(K)_i \cdot X_i\right)^i$$

$$f(\hat{Y}_{n=0}) = \left(W_i \cdot f(K)_i\right)^i \cdot W_i \cdot f(K)_i \cdot X_i = \hat{X}_{in}$$

$$\hat{X}_{in} = \begin{cases} \hat{X}_{in} & \text{if } g(D_i) = 1 \\ 0 & \text{if } g(D_i) = 0 \end{cases}$$

$$\nabla (\hat{Y}_n) = \sum_{j=0}^{n} (Y - \hat{Y})^2 ; Mean Squarez Error$$

$$\nabla (\hat{Y}_n) = -\sum_{j=0}^{n} Y \cdot \log(\hat{Y}_n) ; Cross = n \text{ froly } Fror$$

$$\frac{d}{dw} = 2 \cdot (Y - \hat{Y}) \cdot (-f(u)) \cdot h$$

alternative

alternative

E. Activation Consistion & Activation Function