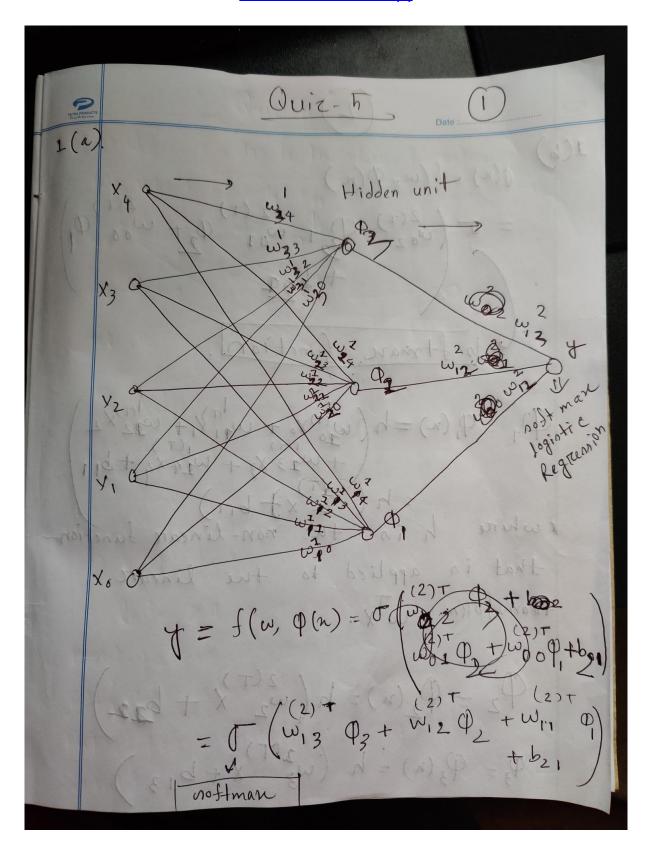
## Ans to the Question 1 (a)



Ans to the Question 1 (b)

1(b) 
$$\gamma(n) = f(\omega, \varphi(n))$$

$$= \sigma \left( \frac{2(\tau)}{\omega_{02}}, \varphi_{2} + \frac{2(\tau)}{\omega_{01}}, \varphi_{2} + \frac{2(\tau)}{\omega_{00}}, \varphi_{1} + \frac{2(\tau)}{\omega_{11}}, \varphi_{11} + \frac{2(\tau)}{\omega_{12}}, \varphi_{11} + \frac{2(\tau)}{\omega_{13}}, \varphi_{11} + \frac{2(\tau)}{\omega_{13}}, \varphi_{11} + \frac{2(\tau)}{\omega_{11}}, \varphi_{$$

\* The non-linearity/non-linear function is applied to learn the non-linear relations in the data. Different functions; Relu, Crelu, Sigmoid.

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\* Rolen of P; There are ealled hidden

units. Each nurron learns a different
feature on relation in the data. At
the end the output is the different
nealed/weighted function of the output
of different nurrons where the input
to each of the nurron is the scaled/
weighted function of each input.
weighted function of each input.