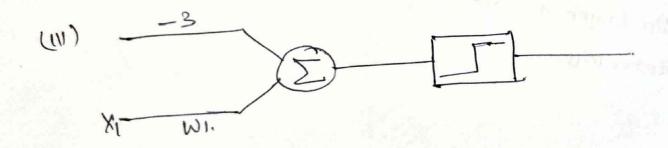
Given  $w_i = f(x-6)$ .

- @ mi=1-6 the tis not possible.
- (11) ME = 1.0 then f = signum function.
- (111) M1 = 0.9963 -> t = Log sigmoidal.
- (W) hi = -1 then f = is not possible.

## ANS-2.2

- (1) symmatrical hard limit function is required.
- (11) We can take wo = -3 as a bias. Bias is not related to Input weight.



ANS 2.3

1) If bias is zero then:

$$y_i = f(w_0 + w_1 l_1 + w_2 l_2)$$
  
 $w_0 = 0$   
 $0.5 = f(0 + 3x - 5 + 2x + 2)$ 

there is not from table 2.1 possible

- (11) bias 1-5 yes, there ix a bias the linear transfer function ix used.

  bias = 1-5 and f ix punelin.
- (111) yes, a Log-sigmoid transfer function is.
  used., bias = 1.
- (IV). No, bear as possible if symmetrical hardling

## ANS 2.4

determined.

(1) In 2 and layer 4 neurons are negatived.

corresponding to 4 outputs.

In layer 1 No : of neuron cannot be

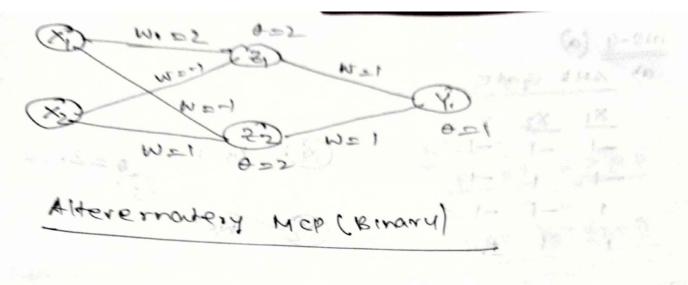
(n).

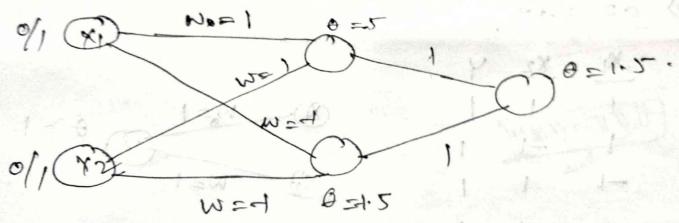
- (111) Log-sigmoidal transfer function can be used in each layer.
- (h) MO.

ANS-4 (a)

a) AND Gate

$$\frac{x_1}{x_2}$$
  $\frac{x_2}{y_1}$ 
 $\frac{y_2}{y_1}$ 
 $\frac{y_2}{y_2}$ 
 $\frac{y_1}{y_2}$ 
 $\frac{y_1}{y_2}$ 
 $\frac{y_2}{y_2}$ 
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 $\frac{y_1}{y_2}$ 
 $\frac{y_1}{y_2}$ 





tou - QNA

