



## Neural Network (Unit-2)

Total points 10/10 ?

Quizes

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☐ A

☒ B

☐ C

✓ Activation value is associated with? \*

1/1

☐ none of the mentioned

☐ all of the mentioned

☒ cell membrane potential



☐ potential at synapses



✓ Which of the following model has ability to learn?

1/1

- ☐ pitts model
- ☒ rosenblatt perceptron model
- ☐ both rosenblatt and pitts model
- ☐ neither rosenblatt nor pitts



✓ When both inputs are 1, what will be the output of the pitts model nand gate ? \*

1/1

- ☐ 1
- ☒ 0
- ☐ z
- ☐ either 0 or 1



✓ Does McCulloch-pitts model have ability of learning? \*

1/1

- ☐ Yes
- ☒ No



✓ What was the 2nd stage in perceptron model called?

1/1

- ☐ sensory units
- ☐ summing unit
- ☒ association unit
- ☐ output unit



✓ If  $a(i)$  is the input,  $\hat{a}$  is the error,  $n$  is the learning parameter, then how can 1/1 weight change in a perceptron model be represented? \*

- ☐  $na(i)$
- ☐  $n^{\hat{a}}$
- ☐  $\hat{a}a(i)$
- ☒ none of the mentioned



✓ What is an instar topology?

1/1

- ☒ when input is given to layer F1, the the  $j$ th(say) unit of other layer F2 will be activated to maximum extent
- ☐ when weight vector for connections from  $j$ th unit (say) in F2 approaches the activity pattern in F1(comprises of input vector)
- ☐ can be either way
- ☐ none of the mentioned



☐ Other: .....

✓ If two layers coincide & weights are symmetric( $w_{ij}=w_{ji}$ ), then what is that 1/1 structure called?

☐ instar

☐ outstar

☒ autoassociative memory



☐ heteroassociative memory

✓ What does STM corresponds to?

1/1

☒ activation state of network



☐ encoded pattern information pattern in synaptic weights

☐ either way

☐ both way

☐ Other: .....

✓ What was the main deviation in perceptron model from that of MP model?

1/1

☐ more inputs can be incorporated

☒ learning enabled



- ☐ all of the mentioned
- ☐ none of the mentioned

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