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Roll No. ....

**TCS-821**

**B. TECH. (EIGHTH SEMESTER)**

**MID SEMESTER**

**EXAMINATION, May, 2023**

**SOFT COMPUTING**

**Time : 1½ Hours**

**Maximum Marks : 50**

**Note :** (i) Answer all the questions by choosing  
any *one* of the sub-questions.

(ii) Each sub-question carries 10 marks.

1. (a) Differentiate between Hard and Soft  
Computing. (CO1)

**OR**

(b) Explain the types of neural network.(CO1)

2. (a) Explain human brain with basic  
component. (CO1)

**P. T. O.**

(2)

OR

- (b) Explain different type of activation function. (CO1)
3. (a) What are the different factors affecting Back propagation ? Also list the application of Back Propagation Network. (CO2)
- OR
- (b) Explain all steps in Back Propagation Learning.
4. (a) Explain different types of Learning in ANN. (CO2)
- OR
- (b) Explain Mc-Cullach Pitts Model with realization of AND & OR Gate. (CO2)
5. (a) Write short note on output layer computation. (CO2)
- OR
- (b) Explain Training process for Perceptron Model. (CO2)