# ABES Engineering College, Ghaziabad

Affiliated to Dr. A.P.J Abdul Kalam Technical University, Lucknow

## Department of CSE-Data Science

| Assignment No.1 | |
|---|---|
| **Subject:** Application of Soft Computing (KCS-056) | |
| **Submission Date: 11.10.2023 (Wednesday)** | |
| **Faculty Name:** Ms. Shreya | **Sem & Section:** 3$^{rd}$ & A,B,C |
| | |
| **Note: Attempt any Five Questions** | **5*4=20** |

| Q. N. | Questions | Bloom Level |
|---|---|---|
| 1 | What is the synapse of a neuron? Draw and Explain the structure of neuron. | K2 |
| 2 | What is a single-layer artificial Neural Network? What is perceptron Model? | K2 |
| 3 | Differentiate between Soft Computing and Hard Computing & differentiate between Supervised and unsupervised learning. | K2 |
| 4 | Apply Hebb Rule method to develop logical AND Function.(use bipolar inputs and target) | K2 |
| 5 | Differentiate between Recurrent Network & multilayer feedback network. | K2 |
| 6 | Describe multi-layer Perceptron method. Does Perceptron require supervised learning? If not, What does it require? Support Your Answer. | |