Department of Artificial Intelligence and Data Science

IV Year VIII Semester

8EE6-60.2: Soft Computing

Note: Each assignment of Maximum Marks 10.All question carries equal marks.

ASSIGNMENT-I

Q.1 What are the advantages of using Soft Computing	BLT-1	CO-1
Q.2 Mention platforms which are used for large scale soft computing	BLT-2	CO-1
Q.3 Explain different Fuzzy models in soft computing?	BLT-4	CO-1
Q.4 What is the difference in soft computing and hard computing?	BLT-2	CO-1
Q.5 Explain fuzzy relations?	BLT-2	CO-1

ASSIGNMENT-II

Q1. What are the applications of fuzzy sets-fuzzy modeling	BLT-2	CO-2
Q2. List out the concept of Information processing fuzzy robotics	BLT-2	CO-2
Q3. What are the system integrators in soft computing.	BLT-4	CO-2
Q4. Mention some open source soft computing platform database?	BLT-2	CO-2
Q5. Mention the name of some classical operators	BLT-4	CO-2

ASSIGNMENT-III

Q1. What is the use of artificial neural networks in soft computing	BLT-1	CO-3
Q2. Explain ART Neural Network?	BLT-2	CO-3
Q3. Architecture of Feed forward Neural networks what are the resources that are provided by it?	BLT-2	CO-3
Q4. Explain supervised and unsupervised learning method?	BLT-4	CO-3
Q5. List down the basic characteristics of soft computing	BLT-4	CO-3

ASSIGNMENT-IV

Q1.What are the issues of GA in practical implementation	BLT-1	CO-4
Q2. Explain PSO	BLT-2	CO-4
Q3. Define genetic algorithm vs traditional algorithm	BLT-2	CO-4
Q4. List down the Gradietn-based local optimization method?	BLT-2	CO-4
Q5. Write down the applications of PSO engineering	BLT-4	CO-4

ASSIGNMENT-V

Q.1 What are the Generation of Fuzzy Rules and membership functions?	BLT-1	CO-5
Q.2 Explain difference between fuzzification and Defuzzyfication in Neuro-fuzzy systems	BLT-2	CO-5
Q.3 Write down algorithm of PSO.	BLT-2	CO-5
Q.4 Define Applications of Ann.	BLT-4	CO-5
Q.5 What is the difference between simulated Annealing Network and Neural Network?	BLT-4	CO-5

*BLT: BLT shows the **Bloom's taxonomy** levels